SEPA -

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CONTAINS NO CBI

& EPA-OTS

90-890000 185

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Number:

PART	A G	ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	com	pleted in response to the <u>Federal Register Notice of $[0]2$ $[1]5$ $[8]9$ year</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	ъ.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
	,	(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	,c.	If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_[]_]
•		Name of chemical substance
1.02		entify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>	Ha	nufacturer
[_]	Im	porter
		ocessor
		P manufacturer reporting for customer who is a processor
	X/	P processor reporting for customer who is a processor

•		

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?
CBI	Yes
[_]	No
1.04 <u>CBI</u>	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. Yes
	b. Check the appropriate box below:
	[_] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)
	[_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
[_]	Trade name Rubinate TDI 80/20
	Is the trade name product a mixture? Circle the appropriate response.
	Yes
1.06 CBI	Certification The person who is responsible for the completion of this form must sign the certification statement below:
<u></u> <u></u> 1	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."
	Lawrence R. Carapellotti / Caral Matth
	President SIGNATURE DATE SIGNED
	TITLE $(\frac{714}{\text{TELEPHONE NO.}})$
<u></u>	Tark (X) this box if you attach a continuation sheet.

BEST COPY AVAILABLE

1.07 <u>CBI</u>	with the required information o within the past 3 years, and th for the time period specified i are required to complete section	E you have provided EPA or another long a CAIR Reporting Form for the list information is current, accurate in the rule, then sign the certification 1 of this CAIR form and provide a submitted. Provide a copy of any etion 1 submission.	sted substance e, and complete ation below. You
	intormation which I have not in	best of my knowledge and belief, alcluded in this CAIR Reporting Form and is current, accurate, and compl	han been subsidered
	NAHE	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u>	those confidentiality claims which was company has taken measures and it will continue to take the been, reasonably ascertainable tusing legitimate means (other tha judicial or quasi-judicial proinformation is not publicly available.	e asserted any CBI claims in this rements truthfully and accurately apich you have asserted. to protect the confidentiality of tese measures; the information is no by other persons (other than govern han discovery based on a showing of occeding) without my company's consilable elsewhere; and disclosure of my company's competitive position.	he information, t, and has not ment bodies) by special need in ent; the
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	
	5		
[_] н	ark (X) this box if you attach a	continuation sheet.	

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name [A]R]N]C]O]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
t <u></u>]	Address [5]]]]]]]F]]]R]E]S]T]O]N]E]]]]]]]]]]]]]]]]]]]]]]]]]
	(S OUTH G ATE D City
	$\begin{bmatrix} \overline{C} \\ \overline{A} \end{bmatrix}$ $\begin{bmatrix} \overline{Q} \\ \overline{Q} \end{bmatrix}$ $\begin{bmatrix} \overline{Q} \\ \overline$
	Dun & Bradstreet Number
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
CBI	Name [A]R]N]C]O]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Address [O]N]E] C]E]N]T]E]R]P]O]I]N]T]E] D]R]I]V]E]
	[L]A]_]P]A]L]M]A]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]
	[C]A] [9]0]6]2]3][1]0]9]4] State
	Dun & Bradstreet Number
	Employer ID Number
	€

	Parent Company Identification N/A
CRT	
	Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
	[_]_] [_]]]][_]]]] State
1	Dun & Bradstreet Number
1.12	Technical Contact
CBI I	Name [<u>E] U]G]E]N]E] L]E]E]] </u>
[_] :	Title [T]E]C]H]N]I]C]A]L]_]M]A]N]A]G]E[R]_]_]_]_]_]_]
•	Address [5]1]4]1]]F]1]R]E]S]T]0]N]E]]]P]L]A]C]E]]]]]]
	(SOUTHIJGIAITE)_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
	[C]A] [9]0]2]8]0][]]]] State
7	Telephone Number
1.13	This reporting year is from
	•
·	
	•
•	
•	
-	

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: $_{\rm N/A}$
CBI [_]	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_][_]_]_]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number[_]_]_]_[_]_]_[_]_]_[_]_]
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: N/A
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]]]]]]]]]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[<u>]</u>	fark (X) this box if you attach a continuation sheet.

<u>CBI</u> []	Classification	uantity (kg/yr
	Manufactured	N/A
	Imported	N/A
	Processed (include quantity repackaged)	146,786
	Of that quantity manufactured or imported, report that quantity:	٧
	In storage at the beginning of the reporting year	N/A
	For on-site use or processing	N/A
	For direct commercial distribution (including export)	N/A
	In storage at the end of the reporting year	N/A
	Of that quantity processed, report that quantity:	
•	In storage at the beginning of the reporting year	46,056
	Processed as a reactant (chemical producer)	N/A
	Processed as a formulation component (mixture producer)	146,786
	Processed as an article component (article producer)	N/A
	Repackaged (including export)	N/A
	In storage at the end of the reporting year	44,270

or a com chemical	If the listed subsponent of a mixture, . (If the mixture component chemical for a	provide the follomposition is va	lowing informational	tion for eac	h component
	Component Name		olier me	Composition (specify	rage % on by Weight precision, 45% ± 0.5%)
				Total	100%
					·
			,		
	eggent.	•			

2.04	State the quantity of the listed substance that your facility manufactor processed during the 3 corporate fiscal years preceding the report descending order.	ing year in
CBI		
[_]	Year ending	$\begin{bmatrix} 0 \\ 6 \end{bmatrix}$ $\begin{bmatrix} 8 \\ 7 \end{bmatrix}$
	Quantity manufactured	N/A ,
	Quantity imported	N/A
	Quantity processed	131,000
	Year ending	$\begin{bmatrix} 0 \\ 6 \end{bmatrix}$ $\begin{bmatrix} 8 \\ 6 \end{bmatrix}$ Year
	Quantity manufactured	N/A
	Quantity imported	N/A
	Quantity processed	118,000
	Year ending	$\begin{bmatrix} 0 \end{bmatrix} 6 \end{bmatrix} \begin{bmatrix} 8 \end{bmatrix} 5$ Mo. Year
	Quantity manufactured	N/A
	Quantity imported	
	Quantity processed	
2.05	Specify the manner in which you manufactured the listed substance. Cappropriate process types.	ircle all
CBI	N/A	
[_]	Continuous process	• • • • • • • • • • • • • • • • • • • •
	Semicontinuous process	
	Batch process	
	batta process to the second se	
,- 1	Mark (X) this box if you attach a continuation sheet.	

2.06 CBI	Specify the manner in appropriate process ty	which you processed t pes.	he listed substance.	Circle all
[_]	Continuous process			
	Semicontinuous process			2
	Batch process	• • • • • • • • • • • • • • • • • • • •		3
2.07	State your facility's substance. (If you ar	name-plate capacity f e a batch manufacture	or manufacturing or pr r or batch processor,	rocessing the listed do not answer this
CBI	question.)	/A		
[_]	Manufacturing capacity			kg/yr
	Processing capacity .		·····	kg/yr
2.08 <u>CBI</u> [_]	If you intend to incremanufactured, imported year, estimate the inc volume.	, or processed at any rease or decrease bas Manufacturing	time after your curre	ent corporate Ilscal
		Quantity (kg)	· · · · · · · · · · · · · · · · · ·	
	Amount of increase	N/A	N/A	145,000
	Amount of decrease	N/A	N/A	N/A
÷.				
		- There		
	•			
(_)	Hark (X) this box if y	ou attach a continuat	ion sheet.	. *

	listed substance	argest volume manufacturing or processing proces e, specify the number of days you manufactured of g the reporting year. Also specify the average s type was operated. (If only one or two operates	number of h	ours per
<u>CBI</u>		•	Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	N/A 246	N/A 8
		Processed		0
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	N/A	N/A
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)	* .	
		Manufactured	N/A	N/A
		Processed	N/A	N/A
2.10 <u>CBI</u> [_]	substance that chemical. Maximum daily i	num daily inventory and average monthly inventor was stored on-site during the reporting year in inventory	y of the li	sted f a bulk

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify ± % precision)	Source of products, products, Impuritie
N/A	N/A	N/A	N/A	N/A
`				
			•	
¹ Use the follo	wing codes to designa	te byproduct, copro	oduct, or impurit	y:
Use the follows B = Byproduct C = Coproduct I = Impurity		te byproduct, copro	oduct, or impurit	y:
B = Byproduct C = Coproduct		te byproduct, copro	oduct, or impurit	y: ·
B = Byproduct C = Coproduct		te byproduct, copro	oduct, or impurit	y:
B = Byproduct C = Coproduct		te byproduct, copro	oduct, or impurit	y:

a.	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d. Type of End-User
Product Types ¹	100	₹0,5	I
B = Synthetic reactan C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilir Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Friction agent	r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear	<pre>0 = Photographic/R and additives P = Electrodeposit 0 = Fuel and fuel</pre>	icals and additives for chemicals rol chemicals and additives additives
<pre>I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad 2Use the following cod</pre>		X = Other (specify	

<u>CBI</u>	Expected Product Types import, or process us corporate fiscal year import, or process for substance used during used captively on-site types of end-users for explanation and an exception of the explanation and the explanation of the explanat	ing the listed substant, For each use, specing each use as a percert the reporting year. The as a percentage of the each product type.	fy the quantity you attage of the total vo Also list the quanti	lume of listed ty of listed substance r column b., and the
	a.	. b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	L	100	<0.05	I
				·
				· · ·
	<pre>"Use the following co A = Solvent B = Synthetic reacts C = Catalyst/Initiat</pre>	or/Accelerator/	L = Moldable/Castabl M = Plasticizer	
	<pre>agent I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A</pre>	ant/Sequestrant ent/Degreaser ion modifier/Antiwear sifier Adhesive and additives	Q = Fuel and fuel ac R = Explosive chemic S = Fragrance/Flavor T = Pollution control U = Functional fluid V = Metal alloy and W = Rheological mode X = Other (specify)	iditives cals and additives c chemicals cl chemicals is and additives additives ifier
	F = Chelator/Coagula G = Cleanser/Deterge H = Lubricant/Pricti agent I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/	ant/Sequestrant ent/Degreaser ion modifier/Antiwear sifier Adhesive and additives odes to designate the CS = Cons	Q = Fuel and fuel ac R = Explosive chemic S = Fragrance/Flavor T = Pollution control U = Functional fluid V = Metal alloy and W = Rheological modic X = Other (specify) type of end-users:	iditives cals and additives c chemicals cl chemicals is and additives additives affier

<u>_</u> 1	a.	b. Pinal Product(s	c. Average % Composition of Listed Substance	d. Type_of
	Product Type1	Physical Form	in Final Product	End-Users
	L	В	4	I
ţ	agent I = Surfactant/Emul J = Flame retardant K = Coating/Binder/	lizer/Scavenger/ lizer/Scavenger/ gent ant/Sequestrant gent/Degreaser ion modifier/Antiwear sifier Adhesive and additive	<pre>M = Plasticizer N = Dye/Pigment/Colo 0 = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modis X = Other (specify)</pre>	n/Plating chemicals ditives als and additives chemicals chemicals and additives additives fier
	A = Gas B = Liquid C = Aqueous solutio D = Paste E = Slurry F1 = Powder	F3 = Gra on F4 = Oth G = Gel	er solid	
	³ Use the following of I = Industrial CM = Commercial	codes to designate the CS = Con H = Oth		

	Railc	ar		
	Railc			
				2
	Barge	, Vessel		3
Ŧ	Pipel	ine		4
1	Plane			
(Other	(specify)	••••••	
CBI (or pr of en	mer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for used use listed (i-iv).	used by your cu e under each ca	stomers tegory
j	i.	Industrial Products		
		Chemical or mixture	58,000	kg/yr
		Article		kg/v1
1	ii.	Commercial Products		
		Chemical or mixture	N/A	kg/yr
		Article	N/A	kg/yı
1	iii.	Consumer Products	N/A	1 0 4
		Chemical or mixture	N/A	kg/yr
		Article	N/A	kg/yr
3	iv.	<u>Other</u>	N/A	
		Distribution (excluding export)	N/A	kg/yr
		Export	N / A	kg/yr
		Quantity of substance consumed as reactant	N/A	kg/yr
		Unknown customer uses	N/A	kg/.yr

PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trace the average price is the market value of the product substance.	les are treated a	s purchases.
\ <i>'</i>	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	N/A	N/A
	The listed substance was transferred from a different company site.	N/A	N/A
	The listed substance was purchased directly from a manufacturer or importer.	145,000	2.37
	The listed substance was purchased from a distributor or repackager.	N/A	N/A
	The listed substance was purchased from a mixture producer.	N/A	N/A
3.02 CBI [_]	Circle all applicable modes of transportation used to your facility. Truck		

3 ' a.	Circle all applicable containers used to transport the listed subs facility.	tance to	you
]	Bags	• • • • • • •	• • • •
	Boxes	• • • • • • •	
	Free standing tank cylinders		
•	Tank rail cars		
•	Hopper cars	• • • • • • •	
	Tank trucks	• • • • • • •	
	Hopper trucks	• • • • • • •	
	Drums		
	Pipeline	• • • • • • •	
	Other (specify)		
b.	If the listed substance is transported in pressurized tank cylinder	rs, tank	rai
٠.	cars, or tank trucks, state the pressure of the tanks.		
	cars, or tank trucks, state the pressure of the tanks. Tank cylinders	N/A	
	•		
	Tank cylinders	N/A	=
	Tank cylinders	N/A	=
	Tank cylinders	N/A	_ 1
	Tank cylinders	N/A	=
	Tank cylinders	N/A	=
	Tank cylinders	N/A	_ 1
	Tank cylinders	N/A	=
	Tank cylinders	N/A	=
	Tank cylinders	N/A	m
	Tank cylinders	N/A	n
	Tank cylinders	N/A	n

Trade Name N/A N/A N/A Supplier or Manufacturer N/A	Average % Composition Amoun by Weight Process (specify ± % precision) (kg/yr N/A N/A
N/A N/A	
	•

3.05 CBI	State the quantity of the reporting year in the for the percent composition,	bstance.	ial during the mical, or polymer, and	
[_]		Quantity Used (kg/yr)	. Vei	Composition by the of Listed Sub- ce in Raw Material cify ± % precision
	Class I chemical	145,000		100
	Class II chemical	N/A	<u> </u>	N/A
		N/A		Ņ/A
		N/A		N/A
	Polymer	N/A		N/A
		N/A		N/A
•		N/A		N/A
•		-		

SECTION 4 PHYSI	AL/CHEMICAL	PROPERTIES
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General Instructions	Cene	ral	Ins	truc	t i	ons
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If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

PART	A PHYSICAL/CHEMICAL DA	TA SUMMARY		
4.01 CBI	substance as it is manusubstance in the final	rity for the three majo ufactured, imported, or product form for manuf or at the point you beg	processed. Measure to acturing activities, at	t the time you
[_]		Manufacture	Import	Process
	Technical grade #1	N/A % purity	N/A % purity.	99.7 % purity
	Technical grade #2	N/A % purity	N/A % purity	N/A % purity
	Technical grade #3	N/A % purity	N/A % purity	N/A x puri
4.02	1Hajor = Greatest quan	tity of listed substance	e manufactured, importe	ed or processed. for the listed
4.02	1 Hajor = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe	tity of listed substance	fety Data Sheet (MSDS) ing the listed substance peed by a different sour	for the listed If you possess cce, submit your
4.02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance that updated Material Sary formulation contains oped and an MSDS development at least one MSDS	fety Data Sheet (MSDS) ing the listed substance ped by a different sour has been submitted by o	for the listed If you possess rce, submit your circling the
4.02	1 Hajor = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sary formulation contains oped and an MSDS development at least one MSDS	e manufactured, imported fety Data Sheet (MSDS) and the listed substance ped by a different south has been submitted by continuous continuous feet feet feet feet feet feet feet fee	for the listed i. If you possess ice, submit your ircling the
4.02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance that updated Material Sary formulation contains oped and an MSDS development at least one MSDS	e manufactured, imported for the listed substance oped by a different sour has been submitted by continuous for the listed submitted by continuous for the listed submitted by continuous for the listed submitted submi	for the listed i. If you possess ice, submit your circling the
4.02	1 Major = Greatest quan Submit your most recens ubstance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Salary formulation contains oped and an MSDS development at least one MSDS	e manufactured, imported fety Data Sheet (MSDS) and the listed substance oped by a different sound has been submitted by control of the company or by a different sound the company of the company or by a different sound the company or by a different sound the company of	for the listed i. If you possess ice, submit your circling the ferent source.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes ①
	No 2

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State Liquified Gas Gas Liquid Solid Slurry <u>Activity</u> 5 3 2 1 Manufacture 5 1 Import 5 2 **Process** 5 2 Store 5 2 Dispose 5 2 Transport

^[] Mark (X) this box if you attach a continuation sheet.

Particle Size -- If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles >10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.

Physical State		Manufacture	Import	Process	Store	Dispose	Transport
Dust	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A_
	1 to <5 microns	N/A	N/A	N/A	N/A	N/A	N/A
	5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A
Povder	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
	1 to <5 microns	N/A	N/A	N/A	N/A	<u> N/A</u>	N/A
	5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A
Fiber	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
	1 to <5 microns	N/A	N/A	<u> N/A</u>	N/A	N/A	N/A
	5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A
Aerosol	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
	1 to <5 microns	N/A	N/A	N/A	N/A	N/A	N/A .
	5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A

[[]__] Mark (X) this box if you attach a continuation sheet.

)1 Ind	icate the rate constants for the following tran	sformation processes	•	
a.	Photolysis:	N/A (1/4)	n/A	nm
	Absorption spectrum coefficient (peak)	1/A (1/H Cm) &t	NI / A	
	Reaction quantum yield, 6		N/A	_ nm
	Direct photolysis rate constant, k _p , at	N/A 1/hr	^^1la	atitude
ъ.	Oxidation constants at 25°C:			•
	For 10 ₂ (singlet oxygen), k _{ox}	N/A		1/H h
	For RO ₂ (peroxy radical), k _{ox}	37/4	· · · · · · · · · · · · · · · · · · ·	1/H hi
c.	Five-day biochemical oxygen demand, BOD ₅	27 / 4		mg/l
·d.	Biotransformation rate constant:			
	For bacterial transformation in water, k _b	N/A		1/hr
	Specify culture	N/A		_
_	Hydrolysis rate constants:			
e.		N/A		1/H h:
	For base-promoted process, k	NI / A		- - 1/H hi
•	For acid-promoted process, k,	37 / A		- 1/hr
	For neutral process, k _N			- 17111
f.	Chemical reduction rate (specify conditions)	N/A		-
		N/A	 	-

[_]	Mark (X)	this	box i	lf you	attach	8	continuation	sheet.	
									-

PART	в Р	ARTITION COEFFICIENTS				
5.02	a.	Specify the half-life	of the listed subs	tance in the following	ng medi	a.
		<u> Media</u>		Half-life (speci	fy unit	<u>s)</u>
				N/A		
		Groundwater		N/A		
		Atmosphere		N/A		
		Surface water		N/A		
	ъ.	Soil Identify the listed state of the life greater than 24 life.	ubstance's known tr		s that	have a half-
		CAS No.	Name	Half-life (specify units)		Media
		N/A	N/A	N/A	in	N/A
					in	
					in _	
					in _	
<u>:</u>	·	ecify the octanol-water	nartition coeffici	ent. K	N/A	at 25°(
5.03	-	thod of calculation or			N/A	
5.04	Spe	ecify the soil-water pa	rtition coefficient	, K,	N/A	at 25°0
	-	1 type			N/A	
5.05	Spe	ecify the organic carbonefficient, Koc	n-water partition		N/A	at 25°0
5.06	Spe	ecify the Henry's Law C	onstant, H		N/A	atm-m3/mole
			-			·
[_]	Mai	rk (X) this box if you	attach a continuati	on sheet.		

Bioconcentration Factor N/A	Species N/A	Test ¹ N/A
	: 25%	
¹ Use the following codes t	to designate the type of test:	
F = Flowthrough S = Static		
		,

_1		Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		•
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
	Substitutes List all known commer for the listed substance and state t feasible substitute is one which is in your current operation, and which	he cost of each substitute conomically and technology	ge. A commercially or
<u> </u>	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitute conomically and technology	ogically feasible to the comparable
.05 <u>31</u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)
<u> </u>	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitute conomically and technology	ogically feasible to the comparable
<u> </u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)
<u> </u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)
<u> </u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)
<u> </u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)
<u> </u>	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	he cost of each substitute conomically and technology	ee. A commercially ogically feasible to uct with comparable Cost (\$/kg)

BEST CUPY AVAILABLE

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

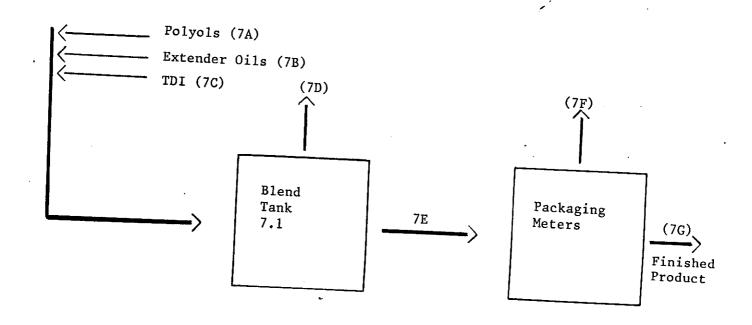
eneral Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

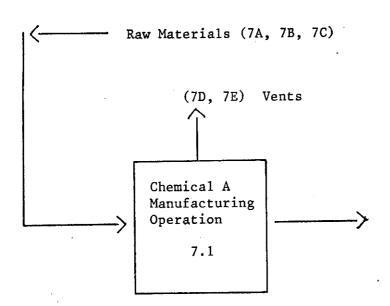
7.01 In accordance with the instructions, provide a process block flow diagram showing the CBI

[_] Process type LIQUID CHEMICAL BLENDING PROCESS



7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

LIQUID CHEMICAL BLENDING PROCESS



DEST COPY AND ADDRESS

^[] Hark (X) this box if you attach a continuation sheet.

CBI	than one process type, photocopy this question and complete it separately for each process type.									
	Process type	LIQUID C	HEMICAL BLENDING PR	OCESS						
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition					
	7.1	Mild Steel Tank	Ambient	Atmospheric	Mild Steel					

				<u> </u>						
		~								

7.05	nrocess block fi	rocess stream identified in yo low diagram is provided for mo mplete it separately for each	re than one process type	agram(s). If a e, photocopy this
CBI				
[_]	Process type	LIQUID CHEMICAL BLEN	DING PROCESS	
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	7D	Blend Tank Vent	GU	0.2688
	7F	Packaging Vent	GU	0.2688
			· ————	
	•			
•				
•				<u></u>
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 1 OL = Organic 1	iquid	e and pressure) ure and pressure)	
		-		

Stream trations ^{2,3} Expected Con-	e. stimated centrations
Stream trations	
TDI 0.142PPM(A) N/A EXTENDER OIL 0.01 PPM(E) N/A POLYOLS 0.01 PPM(E) N/A 7F AIR 99.9% (E) N/A TDI 0.142PPM(A) N/A	or ppm)
EXTENDER OIL 0.01 PPM(E) N/A POLYOLS 0.01 PPM(E) N/A 7F AIR 99.9% (E) N/A TDI 0.142PPM(A) N/A	N/A
POLYOLS 0.01 PPM(E) N/A- 7F AIR 99.9% (E) N/A TDI 0.142PPM(A) N/A	N/A
7F AIR 99.9% (E) N/A TDI 0.142PPM(A) N/A	N/A
TDI 0.142PPM(A) N/A	N/A
	N/A
EXTENDER OIL 0.01 PPM(E) N/A	N/A
·	N/A
POLYOLS 0.01 PPM(E) N/A	N/A
	, <u>, , , , , , , , , , , , , , , , , , </u>
06 continued below	

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package		Concentrations (% or ppm)
1	N/A	,	N/A
2	N/A		N/A
		1	
3	N/A		N/A
4	N/A	•	N/A
5	N/A		N/A

²Use the following codes to designate how the concentration was determined:

V = Volume

A = Analytical result

E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

W = Weight

[[]_] Mark (X) this box if you attach a continuation sheet.

.01 <u>CBI</u>	In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01
[_]	Process type N/A
	· ·
	NOTE:
\$ *	Our processes do not generate any on purpose residuals (there are no residuals inherent to our processes). There are infrequently, off-spec materials, which are subsequently determined to be unsaleable to customers. These are disposed of in accordance with all applicable Federal, State and Local regulations by a licenced Hazardous Waste hauler to a permit TSD facility. Therefore, after a careful review of section 8, this section is generally not applicable.
*	
	•

Process type		•••	,			
a.	b.	c.	d.	e.	f.	g.
Stream ID Code	Type of Hazardous Vaste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) 4,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
N/A	N/A	N/A	N/A	N/A	N/A	A\#
.					,	
<i>s</i> .						

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

_ ^			_ •	4	ued	١
8.0	י כנ	CO	nι	711	ueu	,

8.05

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
•		
4	N/A	N/A
5	N/A	N/A
se the following codes A = Analytical result B = Engineering judgem		
ontinued below		
lark (X) this box if yo	ou attach a continuation sheet.	

8.05 (continued)

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit(<u>+</u> ug/l)
1	N/A	N/A
2	N/A	N/A
2	N/A	N/A
	N/A	N/A
5	N/A	N/A
6	N/A	N/A
		,

[] Hark (X) this box if you attach a continuation sheet.

CBI			•	N/A				
		type	• • •	d.	<u></u>		f.	g.
	Stream ID Code	Vaste Description Code	Management Method Code	Residual Quantities (kg/yr)	of Resi	gement dual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				••••				
				*****	-			

•								
			•					
								
		•		ibit 8-1 to c				

CBI	•		ustion amber		tion of erature	Residence Time In Combustion	
		Temperature (°C)		Мо	nitor	Chamber (seconds)	
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar
	1	-			***************************************		
	2						
	3						
	by circ	ling the app	of Solid Wast ropriate resp	oonse.			
	Yes	•••••	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • •	
	No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	•••••	• • • • • • • • • • •	• • • • • • • • • • •	
8.23 CBI	Complete the interest are used on-sitreatment block	te to burn	the residuals	hree larges identified	t (by capacit in your proc	y) incinerates block of	ors that residual
	are used on-si	te to burn	the residuals ram(s). Air Po <u>Control</u>	three larges identified	t (by capacit in your proc	y) incinerates block or Types Emission Avail	residual of sof so Data
<u>CBI</u>	Incinerator	te to burn	the residuals ram(s). Air Po Control	identified ollution Device	t (by capacit in your proc	ess block of Types Emission Avail	residual of sof so Data
<u>CBI</u>	are used on-si treatment bloc	te to burn	the residuals ram(s). Air Po Control	ollution Device	t (by capacit in your proc	Types Emission Avail	residual of sof so
<u>CBI</u>	Incinerator 2 Indicate	te to burn ck flow diag	the residuals ram(s). Air Po Control	ollution Device N/A N/A N/A	in your proc	Types Emission Avail N/A N/A	residual s of ns Data lable
<u>CBI</u>	Incinerator 1 2 Indicate by circle	te to burn ck flow diag	Air Po Control of Solid Wast	ollution Device N/A N/A N/A e survey habonse.	in your proc	Types Emission Avail N/A N/A N/A ted in lieu	residual s of ns Data lable of response
<u>CBI</u>	Incinerator 1 2 Indicate by circ.	e if Office	Air Po Control of Solid Wast ropriate resp	ollution Device N/A N/A N/A e survey habonse.	s been submit	Types Emission Avail N/A N/A N/A ted in lieu	of response
<u>CBI</u>	Incinerator 1 2 Indicate by circ. No	e if Office	Air Po Control of Solid Wast ropriate resp	ollution Device N/A N/A N/A e survey habonse.	s been submit	Types Emission Avail N/A N/A N/A ted in lieu	of response
<u>CBI</u>	Incinerator 1 2 Indicate by circ. No	e if Office ling the app	Air Po Control of Solid Wast ropriate resp	pllution Device N/A N/A N/A te survey habonse.	s been submit	Types Emission Avail N/A N/A N/A ted in lieu	of response

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

Data Element	Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
Date of hire	X	Х	1971	Indefinite
Age at hire	Х	X	1971	Indefinite
Work history of individual before employment at your facility	N/A	N/A	N/A	N/A
Sex.	X	<u> </u>	1971	Indefinite
Race	N/A	N/A	N/A	N/A
Job titles	X	<u> </u>	1971	Indefinite
Start date for each job title	Х	x	1971	Indefinite
End date for each job title	X	Х	1971	Indefinite
Work area industrial hygiene monitoring data	N/A	N/A	N/A	. N/A
Personal employee monitoring data	N/A	N/A	N/A	N/A
Employee medical history	N/A	N/A	N/A	N/A
Employee smoking history	N/A	N/A	N/A	N/A
Accident history	X	X	1977	Indefinite
Retirement date	X	X	1971	Indefinite
Termination date	X	X	1971	Indefinite
Vital status of retirees	N/A	N/A	N/A	N/A
Cause of death data	N/A	N/A	N/A	N/A

___ Mark (X) this box if you attach a continuation sheet.

9.02 In accordance with the instructions, complete the following table for each activity in which you engage.

"<u>BI</u> [<u></u>]

a.	b.	c.	d.	e.
Activity	Process Category	Yearly Quantity (kg)	Total Vorkers	Total Worker-Hours
Manufacture of the	Enclosed	N/A	N/A	N/A
listed substance	Controlled Release	N/A	N/A	N/A
	0pen	N/A	N/A	N/A
On-site use as	Enclosed	145,000	4	5904
reactant	Controlled Release	N/A	N/A	N/A
	0pen	N/A_	<u> N/A</u>	N/A
On-site use as	Enclosed	N/A	N/A	N/A
, nonreactant	Controlled Release	N/A	N/A	N/A
•	0pen	N/A	N/A	N/A
On-site preparation	- Enclosed	N/A	N/A	N/A
of products	Controlled Release	N/A	N/A	N/A
	0pen	N/A	N/A	N/A

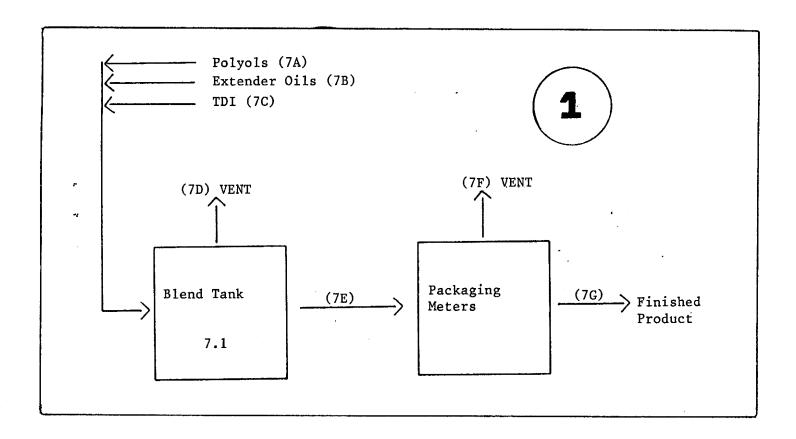
Mark (X) this box if you attach a continuation sheet.

9.03	job title for each labor category at your facility that no may potentially come in contact with or be exposed to the	
CBI	listed substance.	to the
(<u></u> j		·
Ī	abor Category	Description to be made
	A	Descriptive Job Title General Production Worker
	В	
	С	
	D	
	E	
	F	
	G	
	H	
	I	
	J	
	-	

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type LIQUID CHEMICAL BLENDING PROCESS



____ Mark (X) this box if you attach a continuation sheet.

9.05	O5 Describe the various work area(s) shown in question 9.04 that encompass work may potentially come in contact with or be exposed to the listed substance additional areas not shown in the process block flow diagram in question 7.02. Photocopy this question and complete it separately for each process					
CBI	••					
[_]	Process type	LIQUID CHEMICAL BLENDING PROCESS				
	Work Area ID	Description of Work Areas and Worker Activities				
	1	Blending and Packaging - Blender and Packager				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9	·				
	10					
		•				

]	Process type LIQUID CHEMICAL BLENDING PROCESS BLENDING AND PACKAGING							
	Vork area	Number of Vorkers	Mode of Exposu (e.g., dir	re ect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed	
	<u>A</u>	Exposed 2	skin conta	<u>ct)</u>	GU	D D	123	
•	•							
					· .	:	· · · · · · · · · · · · · · · · · · ·	
:				· · · · · · · · · · · · · · · · · · ·				
	GC = Gas (tempe GU = Gas (tempe incl SO = Solid	of exposure: (condensible a erature and pr (uncondensible erature and pr udes fumes, va d	essure) at ambient essure;	SY = AL = OL =	Sludge or slaw Aqueous lique Organic lique Immiscible language (specify phosphore)	lurry uid uid liquid ases, e.g., lO% toluene)		
	B = Greate exceed: C = Greate	utes or less r than 15 minu ing 1 hour r than one hou ing 2 hours	•	E -	exceeding 4 l	4 hours, but nours		

CBI	area. LIQUID CHEMICAL BLENDING PROCESS							
[_]	Process type	• •	•					
	Work area	Blending and Packaging						
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)					
	A	less than 0.001 ppm	less than 0.001 ppm					
			,					
		N.						

PART B WORK PLACE MONITORING PROGRAM

9.08 If you monitor worker exposure to the listed substance, complete the following table.

CBI

•						
Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
					•	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
	N/A N/A N/A N/A N/A N/A N/A N/A	Work Area ID Frequency (per year) N/A N/A N/A N/A	Work Area ID Frequency (per year) Samples (per test) N/A N/A N/A N/A N/A N/A	Work Area ID Frequency (per year) Samples (per test) Who (per test) N/A N/A N/A N/A N/A N/A N/A N/A	Work Area ID Frequency (per year) Samples (per test) Who (Y/N) In-House (Y/N) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	

¹Use the following codes to designate who takes the monitoring samples:

Α	=	Plan	t ir	ıdus	trial	hygi	eni	st
---	---	------	------	------	-------	------	-----	----

· · · · · · · · · · · · · · · · · · ·							
<u>_</u> J	Hark (X) this	box if you	attach a	continuation	sheet.	

B = Insurance carrier

C = OSHA consultant

D = Other (specify)

[_]	Sample Type	Sample Type Sampling		and Analytical Methodology			
	N/A	N/A					
_			::22.				
*							
•							
9.10	If you conduct person specify the following	onal and/or ambient og information for e	air monitoring fo ach equipment typ	r the listed s e used.	ubstance,		
CBI		_		Averaging			
[_]	Equipment Type ¹	Detection Limit ²	Manufacturer	Time (hr)	Model Number		
	N/A	N/A	N/A	N/A	N/A		
					•		
	D = Other (specify)	er tion tube with pump			· ·		
		odes to designate a		ring equipment	types:		
	F = Stationary moni G = Stationary moni	tors located within tors located within tors located at plaing equipment (speci	facility nt boundary				
	² Use the following of			•			
	A = ppm B = Fibers/cubic co C = Micrograms/cubic	entimeter (f/cc) ic meter (μ/m³)					
	B = Fibers/cubic co	entimeter (f/çc) ic meter (μ/m²)					

<u>cbi</u> [_]	Test Description	Frequency (weekly, monthly, yearly, etc.)
(,	N/A	N/A
		,
•		
	•	

ENGINEERING CONTROLS PART C Describe the engineering controls that you use to reduce or eliminate worker exposu 9.12 to the listed substance. Photocopy this question and complete it separately for each process type and work area. CBI LIQUID CHEMICAL BLENDING PROCESS Process type Blending & Packaging Areas 1 Upgraded Year -Year Used Upgraded (Y/N) Installed (Y/N)**Engineering Controls** Ventilation: 1974 N/A Y N Local exhaust N/A N N/A Ν General dilution Other (specify) N/A N N/A N

N

Y

N/A

Vessel emission controls

Mechanical loading or

Other (specify)

packaging equipment

N/A

1974

N/A

N

Y

N/A

N/A

1988

N/A

[_] Mark (X) this box if you attach a continuation sheet.

9.13 CBI	the percentage reduced	or process modifications you have year that have resulted in a reduce For each equipment or process modion in exposure that resulted. Photofor each process type and work are	fication described
[_]	Process type	LIQUID CHEMICAL BLENDING PROCESS	
	Work area	Blending & Packaging Areas 1	
•	Equipment or	Process Modification	Reduction in Worker Exposure Per Year (%)
		None	N/A

9.14 <u>CBI</u>	Describe the pers in each work area substance. Photo and work area.	onal protective and safety equi in order to reduce or eliminat copy this question and complete	pment that e their ex it separa	your worke posure to t tely for ea	rs wear or use he listed ch process type
[_]	Process type	Liquid Chemical B	lending Pr	Ocess	
	Work area	Blending & Packagi			
		Equipment Types	Wear or Use (Y/N)		
		Respirators	Y	-	
		Safety goggles/glasses	Y		
		Face shields	Y		
		Coveralls	Y		
		Bib aprons	N		
		Chemical-resistant gloves	Y		·
		Other (specify) Positive pressure air supply	Y		

9.15	process ty	use respirators when pe, the work areas when s used, the average used the type and frequent separately for each	ncy of the fit process type.	r not the tests. Ph	respirators notocopy this	pecify for each e of were fit question and
,	Work Area	Respirator Type N/A	Average Usage N/A	Fit Tested (Y/N) N/A	Type of Fit Test N/A	Frequency of Fit Tests (per year) N/A
1 (1 E ² U Q	B = Weekly B = Monthly C = Once a year C = Other (s	owing codes to designa		٠.		

Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.						
Process type LIQUID CHEMICAL BLENDING PROCESS						
Work areaBL						
Warning Si	gns					
Worker Tra	ining Program (mo	onthly safety	meetings)			
			,			
Indicate (X) how often you leaks or spills of the list separately for each process. Process type Lie	sted substance. ss type and work	Photocopy thi area.	s question an	ean up routine d complete it		
k leaks or spills of the list separately for each proces	sted substance. ss type and work quid Chemical Ble	Photocopy thi area. Inding Process	s question an	More Than		
Process type Lie Work area	sted substance. ss type and work quid Chemical Ble ending & Packagin Less Than	Photocopy this area. Inding Process g.Areas 1 1-2 Times	s question an	More Than		
Process type Lie Work area	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day	Photocopy this area. Inding Process g.Areas 1 1-2 Times Per Day	3-4 Times Per Day	More Than 4		
Process type Lie Work area	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day N/A	Photocopy this area. Inding Process g.Areas 1 1-2 Times Per Day N/A	3-4 Times Per Day	More Than 4 Times Per Da		
Process type Lie Work area	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day N/A N/A	Photocopy this area. Inding Process Inding P	3-4 Times Per Day N/A N/A	More Than 4 Times Per Da N/A N/A		
Housekeeping Tasks Sweeping Vacuuming Vater flushing of the list separately for each process Lio Lio Bloom Bloom	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day N/A N/A	Photocopy this area. Inding Process Inding P	3-4 Times Per Day N/A N/A	More Than 4 Times Per Da N/A N/A		
Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors Other (specify)	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day N/A N/A N/A	Photocopy this area. Inding Process Inding P	3-4 Times Per Day N/A N/A N/A	More Than 4 Times Per Da N/A N/A N/A		
Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors Other (specify) Absorbent/Sweep	ted substance. ss type and work quid Chemical Ble ending & Packagin Less Than Once Per Day N/A N/A N/A	Photocopy this area. Inding Process Inding P	3-4 Times Per Day N/A N/A N/A	Hore Than 4 Times Per Da N/A N/A N/A		

-	
9.	21 Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes
	exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
	Yes
	If yes, where are copies of the plan maintained? Plant Manager's Office &
	Has this plan been coordinated with state or local government response organizations?
	Yes
	Yes
	No 1
23	Who is responsible for monitoring worker safety at your facility? Circle the
	Plant safety specialist
	Plant safety specialist
	Insurance carrier
1	OSHA consultant
	(abecity)

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.	
<u>CBI</u>		(
[_]	Industrial area	(1
•	Urban area	(2
	Residential area	
	Agricultural area	4
	Rural area	
	Adjacent to a park or a recreational area	
••	Within 1 mile of a navigable waterway	•••••
•	Within 1 mile of a school, university, hospital, or nursing home facility	(
	Within 1 mile of a non-navigable waterway	
	Other (specify)	1

	(UTM) coordinates.		rsal Transverse				
	Latitude		<u> 33 • </u>	57' 5"			
	Longitude	<i></i>	118 •	10' 25 "			
	UTH coordinates Zone	, Northin	ng, Eas	sting			
10.03	If you monitor meteorological conditions in the vicinity of your facility, provide the following information.						
	Average annual precipitation inches/year						
	Predominant wind direction						
10.04	Indicate the depth to groundwater bepth to groundwater			meters			
0.05 CBI	For each on-site activity listed, : listed substance to the environmen Y, N, and NA.)	indicate (Y/N/NA) all t. (Refer to the ins	structions for	a definition of			
[_]			ronmental Relea Vater	•			
[_]	On-Site Activity	Air	<u>Vater</u>	se Land			
[_]	On-Site Activity Hanufacturing	Air N/A	N/A	se Land			
	On-Site Activity Manufacturing Importing	Air N/A	Water N/A	Se <u>Land</u> N/A			
	On-Site Activity Manufacturing Importing Processing	Air N/A N/A Y	N/A N/A	N/A			
	On-Site Activity Manufacturing Importing Processing Otherwise used	N/A N/A	N/A N/A	N/A N/A			
	On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	Mir N/A N/A Y N/A	Water	N/A N/A N/A N/A			
[]	On-Site Activity Manufacturing Importing Processing Otherwise used	Mir N/A N/A Y N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A			

<u>CBI</u>	Provide the following information for the liste of precision for each item. (Refer to the instance an example.)	tructions for furt	specify the level ther explanation and
[_]			
	Quantity discharged to the air	0.5375	harden and
<i>;</i>	Quantity discharged in wastewaters	N/A	kg/yr ± 10 %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	N/A	$\frac{\text{kg/yr} \pm \frac{\text{N/A}}{2}}{\text{N/A}}$
	Quantity managed as other waste in off-site	N/A See 8.01	kg/yr + N/A x

10.08 CBI	Describe the control technologies used to minimize release of the listed substant for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this quest and complete it separately for each process type.								
[<u>]</u>]		LIQUID CHEMICAL BLENDING PROCESS	·						
	Stream ID Code N/A	Control Technology N/A	Percent Efficiency						
-									

10.09 <u>CBI</u> [_]	substance in terms of a residual treatment bloc	Identify each emission point source containing the lister Stream ID Code as identified in your process block or k flow diagram(s), and provide a description of each point raw material and product storage vents, or fugitive emission t leaks). Photocopy this question and complete it separatel
	Process type	LIQUID CHEMICAL BLENDING PROCESS
•	Point Source ID Code 7D, 7F	Description of Emission Point Source
-		Open-ended line (vent)
_		
_		
٠ –		
_		
_		

10.10 Emission Characteristics - - Characterize the emissions for each Point Source ID Code identified in question CELT Point Maximum Maximum Source **Emission** Maximum Average Emission Average **Emission** \mathbf{m} Physical **Emissions** Rate Frequency² Duration³ Rate Emission Code State¹ Rate Frequency (kg/day) (days/yr) Duration (min/day) Factor' (kg/min) (events/yr) (min/event) 7D G 0.00219 100 0.000,000,1 0.000,011,2 240 100 240 7F G 0.00219 100 240 0.000,000,1 0.000,011,2 100 240 ¹Use the following codes to designate physical state at the point of release:

aparan arabah per

G = Gas; V = Vapor; P = Particulate; A = Aerosol; 0 = Other (specify)

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

⁴Average Emission Factor — Provide estimated (± 25 percent) emission factor (kg of emission per kg of

10.11 Stack Parameters -- Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table. CBI [_] Stack Point Inner Emission Source Diameter Exhaust Exit ID Stack (at outlet) Temperature Velocity Building, Building Code Height(m) Vent Type³ (m) (°C) Height(m)1 (m/sec) Width(m) 7D, 7F 6.4 0.1016 20 0.1629 5.5 39.6 V

¹Height of attached or adjacent building

²Width of attached or adjacent building

³Use the following codes to designate vent type:

H = Horizontal

V = Vertical

10.12 <u>CBI</u>	If the listed substance is emitted in particulate form, indicate the particle size distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point source						
[_]	Point source ID code	N/A					
	Size Range (microns)	Mass Francis (a)					
	< 1	Mass Fraction (2 ± 2 precision) N/A					
	≥ 1 to < 10	N/A					
	≥ 10 to < 30						
	≥ 30 to < 50	N/A					
	≥ 50 to < 100	N/A					
	≥ 100 to < 500	N/A					
	≥ 500	N/A					
	-	N/A					
		Total = 100%					

PART C FUGITIVE EMISSIONS

Equipment Leaks -- Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.

Number of Components in Service by Weight Percent of Listed Substance in Process Stream Greater Less 76-99% than 99% 26-75% 11-25% Equipment Type than 5% 5-10% Pump seals1 N/A N/A N/A N/A N/A N/A **Packed** N/A N/A N/A 1 N/A N/A Mechanical N/A N/A 1 N/AN/A N/A Double mechanical² N/A N/A Compressor seals1 N/A N/A N/A N/A 21 N/A N/A N/A N/AN/A Flanges **Valves** N/A N/A N/A Gas³ N/A N/A N/A N/A 14 N/A N/A Liquid N/A N/A N/A N/A N/A N/A N/A N/A Pressure relief devices (Gas or vapor only) Sample connections N/A N/A N/A N/A N/A N/A Gas N/A N/A N/A 2 N/A N/A Liquid Open-ended lines⁵ (e.g., purge, vent) N/A N/A N/A N/A N/A 3 Gas N/A N/A N/A N/A N/A N/A Liquid

10.13 continued on next page

	Hark	(X)	this	box	if	you	attach	8	continuation	sheet
--	------	-----	------	-----	----	-----	--------	---	--------------	-------

¹List the number of pump and compressor seals, rather than the number of pumps or compressors

		(continued)	10.13								
² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) the will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively											
³ Conditions existing in the valve during normal operation											
⁴ Report all pressure relief devices in service, including those equipped with control devices											
would be used during maintenance	l operation that wou	Lines closed during norma operations									
omplete the following table for those 3 to indicate which pressure relief ressure relief device is not controlle	entified in 10.13 to trolled. If a press	maliat davidaan id	10.14 CBI								
c. d. al Estimated Control Device Control Efficie	b. Percent Chemical	a. Number of	[_]								
N/A N/A	in Vessel ¹	Pressure Relief Devices									
- IVA	N/A	N/A									
<u> </u>											
ecord the percent range given under the Service by Weight Percent of Listed) O percent for equipment leaks control conditions. The EPA assigns a control ted to a flare under normal operating	of Components in Serv. 10%, 11-25%, etc.) efficiency of 100 persons conducting conducti	heading entitled "Number of Substance" (e.g., <5%, 5-3) The EPA assigns a control									
Service by Weight Percent of List) O percent for equipment leaks con conditions. The EPA assigns a co ted to a flare under normal opera	of Components in Serv. 10%, 11-25%, etc.) efficiency of 100 performal operating conditions routed	heading entitled "Number of Substance" (e.g., <5%, 5-2 The EPA assigns a control with rupture discs under the efficiency of 98 percent									

_ _;	Process typeLIQUID CHEMICAL BLENDING PROCESS												
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches From Source	Detection Device		Repairs Initiated (days after detection)	Repairs Completed (days after initiated)							
	Pump seals	N/A	N/A	N/A	N/A	N/A							
	Packed												
	Mechanical	N/A	N/A	N/A N/A	N/A	N/A							
	Double mechanical	N/A N/A	N/A N/A		N/A N/A	N/A N/A							
	Compressor seals	N/A	N/A	N/A N/A	N/A	N/A							
:	Flanges	N/A	N/A	- N/A	N/A	N/A							
	Valvės	N/A	N/A	N/A	N/A	N/A							
	Gas	N/A	N/A	N/A	N/A	N/A							
	Liquid Pressure relief devices (gas or vapor only)	N/A	N/A	N/A	N/A	N/A							
··	Sample connections Gas	N/A	N/A	N/A	N/A	N/A							
	Liquid	N/A	N/A	N/A	N/A	N/A							
	Open-ended lines Gas	N/A	N/A	N/A	N/A	N/A							
	Liquid	N/A	N/A	N/A	N/A	N/A							

[] Mark (X) this box if you attach a continuation sheet.

CRI	0. 10.	iden tre		flow diagram	.(3)*				Operat-	-				
	Vessel Type		Composition of Stored Materials	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration (min)			Volume	Vessel Emission Controls		Vent Diameter (cm)	Control Efficiency (%)	Basis for Estima
	Н	N/A	100	118,852	44	90	2.44	4.27	1991	valve	N/A	5	99.9	C
					-	•			-					
	F CIF NCIF EFR P H	Fixed rContactNoncontExterna	t internal fluction internal fluctions in flucting reversel (in intal	oating roof floating ro	of		ns: Ns: In: In:	1 = Mec 2 = Sho 2R = Rin 1 = Lic 2 = Rin W = Wes 1 = Vap 2 = Rin	chanical pe-mount n-mounte quid-mounte ather sh	shoe, priced secondard, secondard resiluted resiluted atted resiluted secondard secondard resiluted secondard resiluted secondard resiluted secondard resiluted resiluted secondard resiluted secondard resiluted secondard resiluted secondard resiluted secondard resiluted secondard resiluted resilu	mary ary ary Lient fi	illed seal		s: .
	F CIF NCIF EFR P H U	= Fixed r = Contact = Noncont = Externa = Pressur = Horizon = Undergr	roof t internal floating r re vessel (in tal cound t percent of pating roofs	oating roof floating ro oof dicate press	of wre ration	ng) e. Includ	HSI HSS LMI LMI VML VML VML VML VML VML	l = Mec 2 = Sho 2R = Rin 1 = Lic 2 = Rin W = Wec 1 = Vap 2 = Rin W = Wec al vola	chanical pe-mounte puid-mounte ather sh por mounte ather sh tile org	shoe, pried secondard, secondard shield atted resilied secondard s	mary ary lient fil lent fil ry ent in	illed seal, iled seal, parenthesi	, primary primary	s: .
	F CIF NCIP EFR P H U	= Fixed r = Contact = Noncont = Externa = Pressur = Horizon = Undergr cate weight than flow	noof internal fluction internal internal flucting race vessel (in intal cound internal flucting race vessel (in intal cound internal fluction intal internal fluction internal internal fluction internal internal fluction internal internal fluction internal fluction internal internal fluction internal fluctin internal fluction internal fluction internal fluction internal	oating roof floating ro oof dicate press the listed	of ure ratin substance	e. Includ	HSI HSS LHI LHI VHI VHI VM e the total	l = Mec 2 = Sho 2R = Rin 1 = Lic 2 = Rin W = Wes 1 = Var 2 = Rin W = Wes al volation	chanical pe-mounte puid-mounte ather sh por mounte ather sh tile org	shoe, pried secondard, secondard shield atted resilied secondard s	mary ary lient fil lent fil ry ent in	illed seal, iled seal, parenthesi	, primary primary	s: .

1 06/16/88 6:30 AM 06/16/88 6:31 . 3 4 5 6 6 10.24 Specify the weather conditions at the time of each release.	10.23 Indicat vas sto list al	e the date and pped. If there l releases.	time when the vere more th	release occur an six release	red and when the r s, attach a contin	release ceased o
2 3 4 5 6 10.24 Specify the weather conditions at the time of each release. Release (km/hr) Direction (X) Temperature Precipitati (Y/N) 2 3 4 5 6:30 AM 06/16/88 6:31 AM 06/16		-	tarted	-		Time (am/pm)
5 6 10.24 Specify the weather conditions at the time of each release. Vind Speed Vind Humidity Temperature Precipitati		0	6/16/88	6:30 AM		6:31 AM
5 6 10.24 Specify the weather conditions at the time of each release. Wind Speed Wind Humidity Temperature Precipitati (*C) (Y/N) 1 2 3	3				-	-
Specify the weather conditions at the time of each release. Vind Speed Wind Humidity Temperature Precipitati	4				-	
O.24 Specify the weather conditions at the time of each release. Wind Speed Wind Humidity Temperature Precipitati (*C) (Y/N) 1 2 3	5	-				
Release Wind Speed (km/hr) Wind Direction Humidity (%) Temperature (°C) Precipitati 1 2 3	6					
Release (km/hr) Direction (X) Temperature Precipitati 1 2 3	0.24 Specify t	he weather con	ditions at the	time of each	release.	
	· · · · · · · · · · · · · · · · · · ·	Wind Speed (km/hr)			Temperature (°C)	Precipitation
3						(1/N)
5	4					

HeviDuty, Part "A"

For Permanent Flatproofing of High Pressure Tires

Mix Part "A" With an Equal Volume of Part "B"

Caution!

Contains TDI 2, 4 Isomer which, based on animal research, may cause cancer. Contains hydrocarbon oil, which has caused cancer in mice after prolonged and repeated contact. May also cause pulmonary sensitization or skin and eye irritation. Wear rubber gloves and eye protection when handling contents. Only use in a well ventilated area. Asthmatics may experience a severe reaction to vapors. FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT (800) 424-9300.

First Aid

IF INHALED: Remove person to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, call a physician.

SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing.

EYE CONTACT: Flush eyes with water; continue for at least 15 minutes. Call a physician.

Spill or Leak

In case of a liquid spill, absorb the spilled material with sawdust or vermiculite, sweep into a waste container, neutralize with decontamination solution (93% water, 5% ammonia, 2% detergent) and store opened container outdoors for a minimum of 24 hours. Disposal of neutralized waste must be in accordance with federal, state and local government environmental control regulations.

Read Material Safety Data Prior to Use

Safety Precautions:

- 1. For detailed safety and technical information, refer to the Material Safety Data Sheet and the Tire Flatproofing Manual.
- **2.** Contents absorb moisture. Store below 90°F, temperature. Tighten caps to seal drums for storage.
- 3. Material temperature should be 72° F. minimum prior to processing. Cold materials become thick which slows pumping, and can cause inadequate mixing and poor cure.
- 4. Be sure to inspect all rims, lock rings, wheels, and associated restraining bolts for structural defects prior to processing. Never leave pump unattended while in operation.
- 5. Liquid pressure in flatproofing equipment is five times the air supply pressure. The high pressures generated can burst tires or dislodge split rims with a lethal force. Use a safety cage, chains or other restraining devices when processing tires. Be certain tires are never pressurized over manufacturer's rated pressures.
- **6.** Place tires in horizontal position at 72°F, minimum to cure. Tires cured vertically on equipment must be elevated and rotated 180 degrees every two hours for 6 hours.
- 7. Disconnect material supply hoses with caution. Loosen couplings and release pressure slowly before disconnecting.
- **8.** Reactive materials must be thoroughly flushed from the pump and lines after shut-down, with isopropyl alcohol. Solidified material is insoluble. Clean up any spilled material before cure.

Warning: This product contains a chemical known to the State of California to cause cancer.

NOTICE TO PURCHASER: The recommendations for the use of this material are based on tests believed to be reliable. Results obtained by others under different conditions are not guaranteed. Purchaser shall determine by separate tests that this product is suitable for its intended use. NO WARRANTY OF FITNESS IS MADE FOR ANY PARTICULAR PURPOSE.

ARNCO PRODUCTS ARE PROTECTED BY THE FOLLOWING PATENTS: US 4461788, US 4426488, US 44166844, US 4327793, US 4310042, US 4273176, US 4127166, US 4081429, US 4068690, US RE 29890

BEST COPY AVAILABLE



5141 Firestone Place South Gate, CA 90280-3570 Phone: (213) 567-0587 (714) 739-7900

LOT NUMBER:

NET WEIGHT: 455 lbs.

TTEM# 4.0

Permacor, Part "A"

For Permanent Flatproofing of Moderate Pressure Tires

Mix Part "A" With an Equal Volume of Part "B"

Caution!

Contains TDI 2, 4 Isomer which, based on animal research, may cause cancer. Contains hydrocarbon oil, which has caused cancer in mice after prolonged and repeated contact. May also cause pulmonary sensitization or skin and eye irritation. Wear rubber gloves and eye protection when handling contents. Only use in a well ventilated area. Asthmatics may experience a severe reaction to vapors. FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT (800) 424-9300.

First Aid

IF INHALED: Remove person to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, call a physician. SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. EYE CONTACT: Flush eyes with water; continue for at least 15 minutes. Call a physician.

Spill or Leak

In case of a liquid spill, absorb the spilled material with sawdust or vermiculite, sweep into a waste container, neutralize with decontamination solution (93% water, 5% ammonia, 2% detergent) and store opened container outdoors for a minimum of 24 hours. Disposal of neutralized waste must be in accordance with federal, state and local government environmental control regulations.

Read Material Safety Data Prior to Use

Safety Precautions:

- 1. For detailed safety and technical information, refer to the Material Safety Data Sheet and the Tire Flatproofing Manual.
- 2. Contents absorb moisture. Store below 90°F, temperature. Tighten caps to seal drums for storage.
- 3. Material temperature should be 72° F. minimum prior to processing. Cold materials become thick which slows pumping, and can cause inadequate mixing and poor cure.
- 4. Be sure to inspect all rims, lock rings, wheels, and associated restraining bolts for structural defects prior to processing. Never leave pump unattended while in operation.
- 5. Liquid pressure in flatproofing equipment is five times the air supply pressure. The high pressures generated can burst tires or dislodge split rims with a lethal force. Use a safety cage, chains or other restraining devices when processing tires. Be certain tires are never pressurized over manufacturer's rated pressures.
- 6. Place tires in horizontal position at 72°F, minimum to cure. Tires cured vertically on equipment must be elevated and rotated 180 degrees every two hours for 6 hours.
- 7. Disconnect material supply hoses with caution. Loosen couplings and release pressure slowly before disconnecting.
- 8. Reactive materials must be thoroughly flushed from the pump and lines after shut-down, with isopropyl alcohol. Solidified material is insoluble. Clean up any spilled material before cure.

Warning: This product contains a chemical known to the State of California to cause cancer.

NOTICE TO PURCHASER: The recommendations for the use of this material are based on tests believed to be reliable. Results obtained by others under different conditions are not guaranteed. Purchaser shall determine by separate tests that this product is suitable for its intended use. NO WARRANTY OF FITNESS IS MADE FOR ANY PARTICULAR PURPOSE.

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5141 Firestone Place South Gate, CA 90280-3570 Phone: (213) 567-0587 (714) 739-7900

LOT NUMBER:

BEST COPY AWAILABLE

NET WEIGHT: 454 lbs.

TTEM# 4.03

RePneu, Part "A"

Safety Data Prior to Use

For Permanent Flatproofing of Moderate Pressure Tires **Read Material**

Export

Mix Part "A" With an Equal Volume of Part "B"

Caution!

Contains hydrocarbon oil, which has caused cancer in mice after prolonged and repeated contact. May also cause pulmonary sensitization or skin and eye irritation. Wear rubber gloves and eye protection when handling contents. Only use in a well ventilated area. Asthmatics may experience a severe reaction to vapors. FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT (800) 424-9300.

First Aid

IF INHALED: Remove person to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, call a physician. SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. EYE CONTACT: Flush eyes with water; continue for at least 15 minutes. Call a physician.

Spill or Leak

In case of a liquid spill, absorb the spilled material with sawdust or vermiculite, sweep into a waste container. Clean area with soapy water. Disposal of waste must be in accordance with federal, state and local government environmental control regulations.

Safety Precautions:

- 1. For detailed safety and technical information, refer to the Material Safety Data Sheet and the Tire Flatproofing Manual.
- 2. Contents absorb moisture. Store below 90°F, temperature. Tighten caps to seal drums for storage.
- 3. Material temperature should be 72° F. minimum prior to processing. Cold materials become thick which slows pumping, and can cause inadequate mixing and poor cure.
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- 8. Reactive materials must be thoroughly flushed from the pump and lines after shut-down, with isopropyl alcohol. Solidified material is insoluble. Clean up any spilled material before cure.

Warning: This product contains a chemical known to the State of California to cause cancer.

NOTICE TO PURCHASER: The recommendations for the use of this material are based on tests believed to be reliable. Results obtained by others under different conditions are not guaranteed. Purchaser shall determine by separate tests that this product is suitable for its intended use. NO WARRANTY OF FITNESS IS MADE FOR ANY PARTICULAR PURPOSE.

ARNCO PRODUCTS ARE PROTECTED BY THE FOLLOWING PATENTS: US 4461788, US 4426488, US 44166844, US 4327793, US 4310042, US 4273176, US 4127166, US 4081429, US 4068690, US RE 29890



5141 Firestone Place South Gate, CA 90280-3570 Phone: (213) 567-0587 (714) 739-7900

NET WEIGHT: 450 lbs.

LOT NUMBER:

RePneu, Part "A"

For Permanent Flatproofing of Moderate Pressure Tires

Mix Part "A" With an Equal Volume of Part "B"

Caution!

Contains TDI 2, 4 Isomer which, based on animal research, may cause cancer. Contains hydrocarbon oil, which has caused cancer in mice after prolonged and repeated contact. May also cause pulmonary sensitization or skin and eye irritation. Wear rubber gloves and eye protection when handling contents. Only use in a well ventilated area. Asthmatics may experience a severe reaction to vapors. FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT (800) 424-9300.

First Aid

IF INHALED: Remove person to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, call a physician. SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. EYE CONTACT: Flush eyes with water; continue for at least 15 minutes. Call a physician.

Spill or Leak

In case of a liquid spill, absorb the spilled material with sawdust or vermiculite, sweep into a waste container, neutralize with decontamination solution (93% water, 5% ammonia, 2% detergent) and store opened container outdoors for a minimum of 24 hours. Disposal of neutralized waste must be in accordance with federal, state and local government environmental control regulations.

Read Material Safety Data Prior to Use

Safety Precautions:

- 1. For detailed safety and technical information, refer to the Material Safety Data Sheet and the Tire Flatproofing Manual.
- **2.** Contents absorb moisture. Store below 90°F, temperature. Tighten caps to seal drums for storage.
- 3. Material temperature should be 72° F. minimum prior to processing. Cold materials become thick which slows pumping, and can cause inadequate mixing and poor cure.
- 4. Be sure to inspect all rims, lock rings, wheels, and associated restraining bolts for structural defects prior to processing. Never leave pump unattended while in operation.
- 5. Liquid pressure in flatproofing equipment is five times the air supply pressure. The high pressures generated can burst tires or dislodge split rims with a lethal force. Use a safety cage, chains or other restraining devices when processing tires. Be certain tires are never pressurized over manufacturer's rated pressures.
- **6.** Place tires in horizontal position at 72°F. minimum to cure. Tires cured vertically on equipment must be elevated and rotated 180 degrees every two hours for 6 hours.
- 7. Disconnect material supply hoses with caution. Loosen couplings and release pressure slowly before disconnecting.
- **8.** Reactive materials must be thoroughly flushed from the pump and lines after shut-down, with isopropyl alcohol. Solidified material is insoluble. Clean up any spilled material before cure.

Warning: This product contains a chemical known to the State of California to cause cancer.

NOTICE TO PURCHASER: The recommendations for the use of this material are based on tests believed to be reliable. Results obtained by others under different conditions are not guaranteed. Purchaser shall determine by separate tests that this product is suitable for its intended use. NO WARRANTY OF FITNESS IS MADE FOR ANY PARTICULAR PURPOSE.

ARNCO PRODUCTS ARE PROTECTED BY THE FOLLOWING PATENTS: US 4461788, US 4426488, US 44166844, US 4327793, US 4310042, US 4273176, US 4127166, US 4081429, US 4068690, US RE 29890



5141 Firestone Place South Gate, CA 90280-3570 Phone: (213) 567-0587 (714) 739-7900

NET WEIGHT: 455 lbs.

LOT NUMBER:

ITEM # 4.03

SuperFlex, Part "A"

For Permanent Flatproofing of Low Pressure Tires

Mix Part "A" With an Equal Volume of Part "B"

Caution!

Contains TDI 2, 4 Isomer which, based on animal research, may cause cancer. Contains hydrocarbon oil, which has caused cancer in mice after prolonged and repeated contact. May also cause pulmonary sensitization or skin and eye irritation. Wear rubber gloves and eye protection when handling contents. Only use in a well ventilated area. Asthmatics may experience a severe reaction to vapors. FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT (800) 424-9300.

First Aid

IF INHALED: Remove person to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, call a physician. SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. EYE CONTACT: Flush eyes with water; continue for at least 15 minutes. Call a physician.

Spill or Leak

In case of a liquid spill, absorb the spilled material with sawdust or vermiculite, sweep into a waste container, neutralize with decontamination solution (93% water, 5% ammonia, 2% detergent) and store opened container outdoors for a minimum of 24 hours. Disposal of neutralized waste must be in accordance with federal, state and local government environmental control regulations.

Read Material Safety Data Prior to Use

Safety Precautions:

- 1. For detailed safety and technical information, refer to the Material Safety Data Sheet and the Tire Flatproofing Manual.
- **2.** Contents absorb moisture. Store below 90°F, temperature. Tighten caps to seal drums for storage.
- 3. Material temperature should be 72° F. minimum prior to processing. Cold materials become thick which slows pumping, and can cause inadequate mixing and poor cure.
- 4. Be sure to inspect all rims, lock rings, wheels, and associated restraining bolts for structural defects prior to processing. Never leave pump unattended while in operation.
- 5. Liquid pressure in flatproofing equipment is five times the air supply pressure. The high pressures generated can burst tires or dislodge split rims with a lethal force. Use a safety cage, chains or other restraining devices when processing tires. Be certain tires are never pressurized over manufacturer's rated pressures.
- **6.** Place tires in horizontal position at 72°F. minimum to cure. Tires cured vertically on equipment must be elevated and rotated 180 degrees every two hours for 6 hours.
- 7. Disconnect material supply hoses with caution. Loosen couplings and release pressure slowly before disconnecting.
- **8.** Reactive materials must be thoroughly flushed from the pump and lines after shut-down, with isopropyl alcohol. Solidified material is insoluble. Clean up any spilled material before cure.

Warning: This product contains a chemical known to the State of California to cause cancer.

NOTICE TO PURCHASER: The recommendations for the use of this material are based on tests believed to be reliable. Results obtained by others under different conditions are not guaranteed. Purchaser shall determine by separate tests that this product is suitable for its intended use. NO WARRANTY OF FITNESS IS MADE FOR ANY PARTICULAR PURPOSE.

ARNCO PRODUCTS ARE PROTECTED BY THE FOLLOWING PATENTS: US 4461788, US 4426488, US 44166844, US 4327793, US 4310042, US 4273176, US 4127166, US 4081429, US 4068690, US RE 29890



5141 Firestone Place South Gate, CA 90280-3570 Phone: (213) 567-0587 (714) 739-7900

LOT NUMBER:

BEST COPY AVAILABLE

NET WEIGHT: 453 lbs.

11EM#4,03

Mation all Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 OFR 1910-1200 Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Satety and health Administration

(Non-Mandatory Form)

Form Approved OMB No. 1218-0072

IDENTITY (As Used on Labe) and List: EXPORT RE-PNEU Compos	nent A	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that					
Section I							
Manufacturer's Name ARNCO		Emergency Tele	phone Number (800)424-9300				
Address (Number, Street, City, State and ZIP Code) One Centerpointe Drive		<u> </u>	per for information (202)483-7616				
La Palma, CA 90623-1094		Date Prepared July 1987					
(714)739-7900		Signature of Pre	perer (optional)				
Section II — Hazardous Ingredienta/Ida	ntity information	1					
Hazardous Components (Specific Chemical Identity;	Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)		
Toluene diisoccyanate			0.02 ಕ್ಲಾಣ				
Petroleum hydrocarbons		0.2mg/m ³					
		 					
Section III — Physical/Chemical Charac	teristics	.			·		
Boiling Point		Specific Gravity	$(H_2O = 1)$,			
	446°F	1/20 - 2 22 -			1.01		
Vapor Pressure (mm Hg.)	N/A	Melting Point			N/A		
Vapor Density (AIR = 1)	N/A	Evaporation Rat			1		
No. Alexander		(Butyl Acetate =	1)		N/A		
Sclubility in Water Negligible,		(Butyl Acetate =	1)		N/A		
Negligible, Appearance and Odor	pungent odor.	(Butyl Acetate =	1)		N/A		
Negligible, Appearance and Odor Amber liquid, strong		(Butyl Acetate =	1)		N/A		
Negligible, Appearance and Odor	d Data	Fiammable Limi		LEL NE	N/A UEL NE		
Negligible, Appearance and Odor Amber Equid, strong Section IV — Fire and Explosion Hazar Flash Point (Method Used) 331°F COC Extinguishing Media	d Data	Fiammable Limi	ts.	LEL NE	UE ₁		
Negligible, Appearance and Odor Amber liquid, strong Section IV — Fire and Explosion Hazar Flash Point (Method Used) 331°F COC Extinguishing Media Dry chemical, chemical foam, a	d Data	Fiammable Limi	ts.	LEL NE	UE _L		
Negligible, Appearance and Odor Amber Equid, strong Section IV — Fire and Explosion Hazar Flash Point (Method Used) 331°F COC Extinguishing Media	d Data	Fiammable Limi	ts NE	NE	UE _L		
Negligible, Appearance and Odor Amber liquid, strong Section IV — Fire and Explosion Hazar Flash Point (Method Used) 331°F COC Extinguishing Media Dry chemical, chemical foam, at Special Fire Fighting Procedures	d Data	Fiammable Limi	ts NE	NE	UE ₁		
Negligible, Appearance and Odor Amber liquid, strong Section IV — Fire and Explosion Hazar Flash Point (Method Used) 331°F COC Extinguishing Media Dry chemical, chemical foam, a Special Fire Fighting Procedures Fire fighters should use self-cont	d Data Indicarbon dioxide. ained pressure deman	Fiammable Limi	ts NE Stus to protect against	NE	UE _L		

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er men en er e r er er	_nsiedia		Conditions to Motspare_cont						
	Stable	X	NIOS THE DOLLAR	<u> </u>					
competibility (A	Materials to Avoi		Water, sicoh	ol, emmonie. em	ines and	alkalies.		VI **	
tizardous Decom	iposition of Bypri	ocucts	Carbon diox	ide, carbon mon	oxide, nin	ogen oxid	es and traces	of HCN.	
rezardous Polymerization	May Occur	X	Conditions to High temper	Avoid stures and the pr	esence of	alkalies, i	ternary amine	es and metal c	empounds.
	Will Not Occur								
Section VI —	Health Haza	rd Data							
Route(s) of Entry:	li	nnaiation?	X	S	kin? X			Ingestior	1? X
Health Hazards (A	Acute and Chroni	^{Cj} Oral	ingestion can	result in stomaci	n mucosa	and possit	ble liver toxic	ity. Mist and	vapors can cause
		pres	thlessness, diz	ziness and nause	a Repes	ted and pr	olonged com	act cam cause	irritation and
		aller	gle sensitivity	for some individ					
Card hogenicity:		ITDO		14	AC Mone	graphs?	in conner in	OSHA P	Regulated? Nonced
· — · · — · · · · · · · · · · · · · · ·	Contains petro	teum oils	sumpler to ones	categorized by	INKL 85	causing sk	ar enicer m	HINTE ETTE: NIO	
	and repeated o								
Signs and Sympti	oms of Exposure Excessive inh	alation car	ceuso imme	diate or delayed	respirator	v sensitiza	tion and asth	ma-like concil	tions.
				ening, swelling					
Jedica: Condition									
Senerally Appravi	ated by Exposure	Pre-e	ಸ್ಕಾರ್ಥಿ ಸಾವಾಕ್ಷ್ಮಾರ್	ific bronchial hy	rpensensit	vity and p	xotentially, an	y allergies.	
mergancy and F	First Aid Procedu	769							
	TEALAHM	ON: Rem	ove parson to	Sesh air. If bre	ething id	difficult a	<u>idminister oxi</u>	f initation occ	urs. SKIN:
	Wine affect	eg eker m. eg eker m.	eleiv with wat it AIP follows	er for at least 15 ed by increush y	vashina w	ith soan ar	od water	. 21100 2011 (100	
Section VII -	- Precaution:	s for Sa	e Handling	and Use			المراكد المراجع بيدانية		
Steps to Be Take	n in Case Mater	ial Is Relea	sed or Spilled	4.1	9. 9.1 - 471			k aanudnet se	other
				ould contain spil					
				place in open co				nation solution	1 (93% water,
	5% am	monia, 2%	detergent). L	eave open in a	ventilated	area for 2	4 hours.		
Waste Disposal N	Method Bury o	r landfill d	econtaminated	waste in accord	iance with	Federal,	State, and loo	al environmen	ıtal control
	regulat		<u>-</u>						
Frecautions to B	e Taken in Hand	ling and S	oring	osed containers t	A Bestines	armonha	de meistire r	contemination	. Use and store
					A DESCRIP	aunosynt	no moranda p	PULL SOLD LANGE OF THE PARTY OF THE	
		reduate ex	naust ventilatio	m.					
Other Precaution	DO NO	OT RESEA	L containers	If contemination	is suspec	ted. Good	personal, hy	gienic practice	es are
	recort.r	rended lik	e weshing her	ds before esting	or smok	DE.			
Section VIII	— Control M	ezsures							
Respiratory Prote	ection (Specify Ty	D9)		Üse	MSHA/	NIOSH ap	proved respir	ator for high	concentrations and
Ventilation	Local Exhaust		ency condition	ns.		Special	None		
	Mechanical (Ge	1 .1	7 15 11 10			Other	None		
		R∞	ommend ed		· = ; =		Nene		
Protective Grove	S Chaminal	Resistant	natural rubbe	.	j Ēye Pr	átection (Chemical we	her's goggles	
Other Frotestive	Cialpina N. En .	om ant							
		art cas	s or spitelite s	iotine to evoid	sicio coni	ect Acce	ssible sefety (thomous and c	ve wesh stations.
Work/Hyg enic P	raprid as Avoli	i umnacess	ary exposure t	o vapors of mist	s. Use p	ptective e	quipment to r	nininize skin	eonta ct

	React vity Dat	E		DECT III	JPY AVAIL		
Stables	<u> </u>	:	Conditions to De not resea	Avoic movernire contains	naued containers.		
	Stable	i X	Stable under	recommended star	age conditions.	A A A A A A A A A A A A A A A A A A A	
incompatibility	(Materials to Avoid	f :	Water, alcoh	nol ammonia amir	nes, alkalies, and oth	ner substances containing a	ctive hydrogen.
mataroous Deco	mposition or Bypro	Ducts				and traces of hydrogen cy	
Hazargous	May Occur		Conditions to		, , , , , , , , , , , , , , , , , , ,		
Polymenzation					ence of alkalies, len	iary amines and metal con	iouourids.
	Will Not Occur	X	Polymerizati	ion heat can lead to	ignition.	•	•
Section VI -	- Health Hazar	d Data					
Route(s) of Entry	y: in	nziation?	X	Skin	? X	ingestion?	X
Health Hazards	(Acute and Chronio, Possible live	r toxicity	if orally ingest	ed and respiratory	sensitization in som	e individuals.	
Carcinogenicity:	Not determi	iP? ned.		IAR	C Monographs?	OSHA Re	guiated?
Signs and Symp	otoms of Exposure	inev redn	ersible damage, ur	nless immediately flu	shed with water. Prol	iver toxicity. Eye contact can onged skin contact will cause itate the upper and lower resp	
	vated by Exposure	Pre-	and can induce a	isthma like respirator	y sensitization in some	individuals.	
Generally Aggra	First Aid Procedure INHALATIO EYE/SKIN soap and wa	Pre-	and can induce a existing unspeci-	isthma like respirator ific bronchial hype fresh air. If breath ediately with water consult physician.	y sensitization in some resensitivity and pote ing is difficult, adm	individuals.	
Generally Aggra Emergency and Section VII -	First Aid Procedure INHALATIC EYE/SKIN soap and wa Precautions ten in Case Materia	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	existing unspeci- move person to formation persists, fe Handling	ific bronchial hype fresh air. If breath ediately with water consult physician.	y sensitization in some resensitivity and pote ing is difficult, adm for at least 15 min	individuals. Initially, any allergies. Initially any allergies. Inister oxygen. Iutes; wash affected skin the	oroughly with
Generally Aggra Emergency and Section VII -	First Aid Procedure INHALATIC EYE/SKIN soap and wa — Precautions ten in Case Materia For minor spill but do not seal	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	existing unspeci- move person to formatication persists, fe Handling ased or Spilled and ventilate are from work area.	fresh air. If breath ediately with water consult physician. and Use Wear full protect. Prepare a decontant	y sensitization in some recensitivity and pote ing is difficult, adm for at least 15 min	individuals. Initially, any aliergies.	oroughly with
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Generally Aggra Emergency and Section VII - Steps to Be Tak Waste Disposal Precautions to E Other Precaution	First Aid Procedure INHALATIC EYE/SKIN soap and wa Precautions on in Case Materia For minor spill but do not seal ammonium hyd Method Slowly stand fo serviced Be Taken in Handlin Use an closed temper.	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	and can induce a existing unspeci- move person to form. The Flush immediation persists, fe Handling assed or Spilled and ventilate are a from work area, water (5-10% sodies, allowing the evolutioning with adequate exist to protect from 50-100°F. Protect for reseal contain minerical.	fresh air. If breath ediately with water consult physician. and Use a. Wear full protect. Prepare a decontamination solute blved carbon dioxide facility. The solids of the contamination in atmospheric moiect from freezing.	ing is difficult, admiration at least 15 min for at least 15 min for at least 15 min least 15 min solution of 0.2 we used in place of the lion, using 10 parts of to vent away. The liquid an be sent to a facility. Do not breathe vapor sture. Provide a dry on is suspected. Go	inister oxygen. utes; wash affected skin the ng respiratory protection. Cov 2-5% liquid detergent and 3-8 ammonium hydroxide solutio the solution for each part of its puid portion may be discharged y permitted for non hazardous ors or allow skin contact.	oroughly with oer container, concentrated n). ocyanate. Let i to a sewer waste. Store in tightly bulk. Store at a
Generally Aggra Emergency and Section VII - Steps to Be Tak Waste Disposal Precautions to E Other Precaution	First Aid Procedure INHALATIO EYE/SKIN soap and wa Precautions ten in Case Materia For minor spill but do not seal ammonium hyd Method Slowly stand fo serviced Be Taken in Handlir Use an closed temper	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	and can induce a existing unspeci- move person to form. The Flush immediation persists, fe Handling assed or Spilled and ventilate are a from work area, water (5-10% sodies, allowing the evolutioning with adequate exist to protect from 50-100°F. Protect for reseal contain minerical.	fresh air. If breath ediately with water consult physician. and Use a. Wear full protect. Prepare a decontamination solute blved carbon dioxide facility. The solids of the contamination in atmospheric moiect from freezing.	ing is difficult, admiration at least 15 min for at least 15 min for at least 15 min least 15 min solution of 0.2 we used in place of the lion, using 10 parts of to vent away. The liquid an be sent to a facility. Do not breathe vapor sture. Provide a dry on is suspected. Go	inister oxygen. utes; wash affected skin the regrespiratory protection. Covers high detergent and 3-8 ammonium hydroxide solution the solution for each part of is puid portion may be discharged a permitted for non hazardous or sor allow skin contact. Sy nitrogen pad if stored in the product of the part of the product of the solution of the solution of the solution for each part of is puid portion may be discharged to permitted for non hazardous or sor allow skin contact. Sy nitrogen pad if stored in the product of the pro	oroughly with oer container, concentrated n). ocyanate. Let i to a sewer waste. Store in tightly bulk. Store at a
Generally Aggra Emergency and Section VII - Steps to Be Tak Waste Disposal Precautions to E Other Precaution Section VIII Respiratory Prot	First Aid Procedure INHALATIO EYE/SKIN soap and wa Precautions ten in Case Materia For minor spill but do not seal ammonium hyd Method Slowly stand fo serviced Be Taken in Handlir Use an closed temper ins Control Method	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	and can induce a existing unspeci- move person to form. The Flush immediation persists, fe Handling assed or Spilled and ventilate are a from work area, water (5-10% sodies, allowing the evolutioning with adequate exist to protect from 50-100°F. Protect for reseal contain minerical.	fresh air. If breath ediately with water consult physician. and Use a. Wear full protect. Prepare a decontamination solutolived carbon dioxide facility. The solids of the contamination in almospheric money for the contamination. In almospheric money is the contamination of the contamination. The solids of the contamination of the contamination is the contamination of the contamination. The solids of the contamination is the contamination of	ing is difficult, admired for at least 15 minutes at least 15 minu	inister oxygen. inister oxygen. utes; wash affected skin the ng respiratory protection. Cov 2-5% liquid detergent and 3-8 ammonium hydroxide solution the solution for each part of is puid portion may be discharged by permitted for non hazardous ors or allow skin contact. Synthogen pad if stored in mod personal hygienic practications with a full face piece	oroughly with oer container, concentrated n). ocyanate. Let i to a sewer waste. Store in tightly bulk. Store at a
Generally Aggra Emergency and Section VII - Steps to Be Tak Waste Disposal Precautions to E Other Precaution Section VIII Respiratory Prot	First Aid Procedure INHALATIO EYE/SKIN soap and wa Precautions ten in Case Materia For minor spill but do not scal ammonium hyd Method Slowly stand fo serviced Be Taken in Handlir Use an closed temper The Control Method Local Exhaust Mechanical (Gene	Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre-	and can induce a existing unspeci- move person to form. The Flush immediation persists, fe Handling assed or Spilled and ventilate are a from work area, water (5-10% sodies, allowing the evolutioning with adequate exist to protect from 50-100°F. Protect for reseal contain minerical.	ific bronchial hype fresh air. If breath ediately with water consult physician. and Use a. Wear full protect. Prepare a decontant itum carbonate may be bleecontamination solut bleecontamination dioxide facility. The solids of that ventilation. In atmospheric mot ext from freezing. The solids of the solid of the so	ing is difficult, admiration in some resensitivity and pote ing is difficult, admiration at least 15 min for at least 15 min f	inister oxygen. utes; wash affected skin the ring respiratory protection. Cov 2-5% liquid detergent and 3-8 ammonium hydroxide solution the solution for each part of its puid portion may be discharged to permitted for non hazardous ors or allow skin contact. So y nitrogen pad if stored in cood personal hygienic praction or with a full face piece	oroughly with oer container, concentrated n). ocyanate. Let i to a sewer waste. Store in tightly bulk. Store at a

Valeria Safety Data Sheet

Valvine used to comply with

DSHA's Hazard Communication Standard.

19 OFR 1910.1200. Standard must be

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consulted for specific requirements. OMB No. 1218-0072 Note: Blank spaces are not permitted. If any item is not applicable, or no IDENTITY (As Used on Laber and List) information is available, the space must be marked to indicate that. FASTCAST SUPER LINER Component A Section I Emergency Telephone Number Manufacturer's Name ARNCO Telephone Number for Information Address (Number Street, City State, and ZIP Code) One Centerpointe Drive (202)483-7616 Date Prepared La Palma, CA 90623-1094 June 1988 Signature of Preparer (optional) (714)739-7900 Section II - Hazardous Ingredients/Identity Information Other Limits ACGIH TLV Recommended % (optional) Hazardous Components (Specific Chemical identity; Common Name(s)) **CSHA PEL** N.E. Antioxidant 0.005 ppm Toluene Diisocyanate ID 50 > 10g/rg Polyether Polyoi LC 50; >200 mg/L for 1 hour Section III - Physical/Chemical Characteristics Specific Gravity (H2O = 1) Boiling Point 1.05 490°F Melting Point Vapor Pressure (mm Hg.) N/E - N/A Evaporation Rate N/E N/E Vapor Density (AIR = 1) (Butyl Acetate = 1) Solubility in Water Reacts with water. CO² is released. Appearance and Odor Clear, syrup like, water white to light straw color. Sharp pungent odor. Section IV - Fire and Explosion Hazard Data UEL LEL Flammable Limits Flash Point (Method Used) 428°F COC N.E. N.E. N.E. Dry chemical, chemical foam, carbon dioxide, halon 1311. If water is used, it should be in large Extinguishing Media quantity. Reaction between water and hot isocyanate may be vigorous. Special Fire Fighting Procedures Self contained breathing apparatus to protect against toxic vapors and combustion products. Unusual Fire and Explosion Hazards Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure

buildup may rupture them

						A THE PARTY OF THE
Section V $+$	- Resolivity Do	.2				
Sizainy	- ರಿಗ್ರವಹಿಶ್ರೀ		Conditions to Avoid			
	Stable	X	None.			
incompatibility	(Meterials to Avoi		None.			
nazardous Dec	amposition of Bypro	SUÇTS			7711.7	
				za. diozide, cz	ides of nivo	em and proces of HCN
Hazardous Polymenzation	May Occur		Conditions to Avoid			
	Will Not Occur	X				
Section VI	- Health Haza	d Data				
Proute(s) of Ent	ry: îr	halation?	X	Skin ${ ilde 7}$ ${ ilde X}$	THE RESIDENCE OF THE PERSONS ASSESSMENT	ingestion?
Health Hazards	(Acute and Chronic	^y No	пе Клоwт.			
			ne Katowi.			
				IARC Menog		CSHA Requisted?
Carcinogenicity	τ	TP?	fot listed et e awainaper in			•
			<u> </u>			
Signa and Sym	natoms of Exposure		um armamin may initially is	noluda: esse im	itation teari	ng or blurring of vision; allergic skin reshes.
			Act exposure they arrively to	Jordan. Cyc u.		ing d. Diezzag dr. anton energie page reconst
No de Condi						
Medica: Condit Generally Aggr	evaled by Exposure	No:	Known.			
Emergency an	d First Aid Procedu	e\$		1 1155		
			n to fresh air. If bresthing			
					inues, get n	nedical attention if swelling or reddening occurs.
			ife Handling and Use			
Steps to Se Tr	aken in Cass Mater For mi	as is Heis not spills.	esec or somec, shovel into a waste contain	ner, cover, but	do not seal t	and remove from work area. Wipe off
<u> </u>	ares W	th comm	ercial grade isopropyl alcoho	ol and clean wi	ping rag.	
Waste Disposa	al Method			<u></u>	uisia Cadanal	. State, and local environmental control
	Dispos	e of comp	nust win were merener	H. BOCOTORIUS V	MIR FEORES.	. Sizie, mic rocal environmental control
	regulat					
Precautions to	Be Taken in Hand Store	ing and S below 90	Storing PP in tightly closed contain	ers, sway from	open fluma	sperks or high heat.
Other Precaut	ions Do n	nt impathe	Venore and fumes at eleval	ted temperature	 s above 285	F. West protective equipment to prevent
			<u> </u>			<u> </u>
		nd skin c				
	II — Control Minotection (Specify Ty					and the second s
						expirator at elevated temperatures.
Vantilation	Local Exhaust	•	ಜಾಗ್ರಾಪ್ರತಿಕೆ		Special	None
	Mechanical (Ge	neral) Re	scommended		Other	None
Protective Glo	ves Chemica	Resisten	್ಷ ನಿನಗಿ ಇತ್ತಿ ಇತ್ತಿಕೆಕಿಂಡ	Eye Fro.	ection Che	unical westur's goggies
Other Protects	ve Cothing or Est	601			al Cafania	he were and sus week welling
Work/Hygienic	-					howers and eye wish stations.
	ea ^r J	end state	with adequate exhaust vent		nends theret	oghly before smoking or exting. • Usopo Marist 11974517
				Fags 2		: :::::, ?+!!

Material Safety Data Sheet May be used to combly with OSHA's mazard Communication Standard. 26 OFR 1910.1200. Standard must be consulted for specific requirements.

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DENTITY (At USE CATAPO	n and List. L: SR 35 - 100		Note Bienk spec Informétion	es ere not permited. It is available, the space	must be marked to in	SCIE. UN III. DICETE ITEL
Section						
Janutacturer's Name ARNO			Emergency Telet	phone Number (800)424-9300		
kactess (Number Street City	y, Sizie and ZIF Code; mpointe Drive		פופסחסתפ אישהיי	per for information (202)483-7616		
Le Peime	. CA 90523-1094		Date Prepared	November 1987		
(714)739-	7900		Signature of Pre	parer (optional)		
Section II — Hezardo	us ingredients/identity	Information				
Hazardous Components (Sc	ecific Chemical Identity; Comm	non Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% lootions
Aromarie Amin	<u>e</u>		Class III B		LC ₅₀ : 3.2 mg/L LD ₅₀ : 450 mg/kg	
Blocked Isocya	nate Prepolymer			N.E.		
	r					
	<u> </u>					
Section III - Physics	el/Chemical Characteris	tics				
Boiling Point		Will not Boll	Specific Gravity	$(H_2O = 1)$		1.25
Vapor Pressure (mm Hg.)	-	N.E.	Meiting Point			N.E.
Vapor Density (AIR = 1)		N.E.	Evaporation Pat (Butyl Acetate			N.E.
Sciubility in Water	Insoluble.					
Appearance and Odor	Viscuous liquid, essentially	odoriess.				
Section IV - Fire ar	nd Explosion Hazard Da	ita				TO THE PARTY OF TH
Fissh Point (Method Used)	>482 COC		Flammable Lim	nte V.E.	LEL N.E.	N.E.
Extinguishing Media Dry che	mical, chemical foam, cerbon	dioxide, and w	ater spray.			
	dures contained breathing apparatus			ad temperatures above	285°F	
Unusua: Fire and Explosion	o magazot					
	n reperot manusation may produce carb	on diaxide D	o not resear conter	manated continuers as p	: c. 5216	سفد و ندر ، چپ وسیدی
שמו שונו של	may replicae tham.					

	fC S	UPEF)	LINCE 'A'		BES"	COPY AVAILABLE	
Section V —	Reactivity Data						-
Station	Unstable		Conditions to Avoid Do not reseal mousture contain	minated	containers.		
	Stable	X	Stable under recommended s	rozađe co	inditions.		
incompatibility	(Materials to Avoid)	<u> </u>	Water, alcohol, ammonia, an	nines, all	kalies, and oth	er substances containing active hydrogen.	
mazarbous Deco	emposition or Byprodu	icts	Carbon monoxide, carbon di	oxide, ni	trogen oxides	and traces of hydrogen cyanide.	
Hazaroous	May Occur	T	Conditions to Avoid		g.		
Porymenzation	Will Not Occur	X	High temperatures and the pro- Polymerization heat can lead	esence o to ignit	i alkalies, terti ion.	ary amines and metal compuourids.	
Section VI -	- Health Hazard	Data					
Route(s) of Entry	r: inna	dation?	X S	un?	X	ingestion? X	
Health Hazards	(Acute and Chronic) Possible liver	toxicity	if orally ingested and respirator	y sensiti	zation in som	e individuals.	
Carcinogenicity:	Not determin	27 ed.	· IA	RC Mon	ographs?	OSHA Regulated?	
Medical Condition	ons of Exposure	ineve redne tract,	rsible damage, unless immediately i	flushed with a late of the lat	ith water. Prole will strongly irri ization in some	itate the upper and lower respiratory individuals.	
	EYE/SKIN Co soap and water	ONTAC r. If irr	ove person to fresh air. If brea T: Flush immediately with waltation persists, consult physicial e Handling and Use	ter for at	difficult, admi	nister oxygen. stes; wash affected skin thoroughly with	
	en in Case Material	s Relea	sed or Spilled	,,,,			
	For minor spills, but do not seal, d	evacuate : remove	and ventilate area. Wear full prote	ctive equ	ipment, including solution of 0.2	g respiratory protection. Cover container, -5% liquid detergent and 3-8 concentrated	
	ammonium hydro	xide in v	water (5-10% sodium carbonate may	be used	in place of the	ammonium hydroxide solution).	
Waste Disposal	stand for	8 hours,	allowing the evolved carbon dioxid	le to vent	away. The liqu	he solution for each part of isocyanate. Let uid portion may be discharged to a sewer permitted for non hazardous waste.	
Precautions to E	closed co	store wi	th adequate exhaust ventilation.	oisture.	breathe vapo Provide a dry	rs or allow skin contact. Store in tightly nitrogen pad if stored in bulk. Store at a	
Other Precaution					suspected. Go	od personal hygienic practices are	
		recon	nmended.				
	- Control Meas	sures					
Respiratory Prot	ection (Specify Type)	MSHA	A-NIOSH approved positive pre	ssure air	supplied resp	irator with a full face piece.	
Ventilation	Local Exhaust		Yes	-	Special	None	
	Mechanical (General	2 <i>i</i>)	Yes		Other	None	
Protective Glove	rs	Rub	ber gloves	Eye Pr	rotection Cho	emical workers goggles or full face shield	
Other Protective	Clothing or Equipme	ent	suitable clothing to avoid skin	contact	Accessible sa	static	ons.
Work/Hygienic F	ractices Handle ju	acorda	nce with good industrial and sa ecessing under adequate exhaust	fety prac	ctices. These	practices include avoiding unnecessary	
							

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

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			A 'MA I	M in and an			
IDENTITY (As Used on Label and List) CATAPOL: SR 10 - 30		Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.					
Section I							
Manufacturer's Name		Emergency Telep	hone Number				
ARNCO	•	(800)424-9300					
Address (Number, Street, City, State, and ZIP Code)		Telephone Numb	er for Information				
One Centerpointe Drive			(202)483-7616				
T - D 1		Date Prepared)./ 400m				
La Palma, CA 90623-1094			May 1987				
(714)739-7900		Signature of Pres	oarer (optional)				
Section II — Hazardous Ingredients/Identit	y Information	1					
Hazardous Components (Specific Chemical Identity; Cor	nmon Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional		
Blocked isocyanate prepolymer		N.E.	N/A				
							
•							
Section III — Physical/Chemical Character	istics						
Boiling Point	Will not	Specific Gravity	(H ₂ O = 1)		1.22 - 1.25		
Vapor Pressure (mm Hg.)	Boil N.E.	Melting Point					
	11.2.				N.E.		
Vapor Density (AIR = 1)	N.E.	Evaporation Rate (Butyl Acetate =			N.E.		
Solubility in Water	_ L						
Insoluble.							
Appearance and Odor							
Viscuous liquid, essentially	odorless.		•				
				· · · · · · · · · · · · · · · · · · ·	70.00		
Section IV — Fire and Explosion Hazard I)ata						
Flash Point (Method Used) >482 COC	Flammable Limit		LEL N.E.	UEL N.E.			
Extinguishing Media Dry chemical, chemical foam, carbon	dioxide and wa	for enray		· · · · · · · · · · · · · · · · · · ·			
Special Fire Fighting Procedures	wonder, and wa	or spray.					
Use self-contained breathing apparatus	to guard against	vapors at elevated	temperatures (>285°)	F) and combustion p	products.		
Unusual Fire and Explosion Hazards Hydrogen cyanide and carbon monoxide	de are possible th	ermal decomposition	on products. Water	produce contamination	n may		
carbon dioxide. Do not reseal contam	inated containers	as pressure build u	p may rupture them.				

Section V —	Reactivity Data					
Stability	Unstable		Conditions to Avoid None,			
	Stable	X	TAORIG.			
Incompatibility	Materials to Avoid)		None.			
Hazardous Deco	mposition or Byprodu	cts	Carbon monoxide, carbon o	lioxide :	oxides of nit	trogen.
Hazardous	May Occur		Conditions to Avoid		VI III	- va
Polymerization	Will Not Occur	X	None			
Section VI -	- Health Hazard				vans	
Route(s) of Entry		ation?	X Si	din?	X	Ingestion?
	'Acute and Chronic)	Non	e Known	···········		
		14011	e Kliowii			
					- <u> </u>	
Carcinogenicity:	NTP		IA ot listed as a carcinogen by IAI	RC Mon RC, NT	ographs? P, OSHA or	OSHA Regulated? ACGIH.
Signs and Symp	toms of Exposure	Va	pors and fumes from heated ma	aterial (a	temperature	res of 280°F and above) can cause irritation to
		th	e eyes, skin and respiratory tra	ct.		
Medical Conditio Generally Aggrav	ns /ated by Exposure	Not	Known.			
Emergency and INH	First Aid Procedures ALATION: Remove	person	to fresh air. If breathing is di	fficult, a	dminister ox	Kygen.
					•	t medical attention if swelling or reddening occurs.
Section VII -	- Precautions fo	or Saf	e Handling and Use			
Steps to Be Tak	en in Case Material I For minor	s Relea spills, s	sed or Spilled shovel into a waste container, c	over, bu	t do not seal	I and remove from work area. Wipe off
			cial grade isopropyl alcohol and			
					<u> </u>	
Waste Disposal	Method Dispose of	contai	ners with waste materials in acc	cordance	with Federa	al, State, and local environmental control
	regulations					
Precautions to B	e Taken in Handling Use and s			. Store	in tightly cl	osed containers to protect from atomospheic
			peratures of 60°-100°F.			STEEL SAN BOUNDS
Other Precaution	Do not b	eathe v	apors or allow skin entact duri	ng proce	ssing/curing	temperatures. Wear protective equipment
	to preven	eye a	nd skin contact at temperatures	220°F a	nd above.	
Section VIII	— Control Meas					
Respiratory Prote	ection (Specify Type)	None	at normal temperature. MSH.	A/NIOS	H approved	respirator at elevated temperatures.
Ventilation	Local Exhaust	Reco	mmended		Special	None
	Mechanical (Genera	nece	ommended		Other	None
Protective Glove	s Natural 1	ubber	or neoprene gloves	Eye P	otection Ch	nemical worker's goggles or safety glasses
Other Protective	Clothing or Equipme	nt		rkin con		showers and eye wash stations.
Work/Hygienic F	ractices		sor suitable clothing to avoid s			

Material Safety Data Sheet

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Note: Blank spaces are not permitted. If any item is not applicable, or no IDENTITY (As Used on Label and List) information is available, the space must be marked to indicate that. **RE-PNEU** Component A Section 1 Emergency Telephone Number Manufacturer's Name (800)424-9300 ARNCO Telephone Number for Information Address (Number, Street, City, State, and ZIP Code) (202)483-7616 One Centerpointe Drive Date Prepared La Palma, CA 90623-1094 March 1987 Signature of Preparer (optional) (714)739-7900 Section II — Hazardous Ingredients/Identity Information Other Limits Recommended % (optional) ACGIH TLV OSHA PEL Hazardous Components (Specific Chemical Identity; Common Name(s)) 0.02 ppm Toluene diisoccyanate (TDI) and TDI prepolymer 0.2mg/m^3 Petroleum hydrocarbons Section III — Physical/Chemical Characteristics Specific Gravity (H2O = 1) **Boiling Point** 440°F 1.01 Melting Point Vapor Pressure (mm Hg.) NE N/A Vapor Density (AIR = 1) Evaporation Rate NE NE (Butyl Acetate = 1) Solubility in Water Insoluble, reacts with water to liberate carbon dioxide gas. Appearance and Odor Coffee brown liquid, pungent odor. Section IV - Fire and Explosion Hazard Data UEL Flammable Limits Flash Point (Method Used) NE NE 356°F COC Extinguishing Media Dry Chemical, chemical foam, carbon dioxide. Special Fire Fighting Procedures Wear self-contained pressure demand breathing apparatus to guard against incompletely combusted carbon products. Unusual Fire and Explosion Hazards

Closed containers may explode from extreme heat or from water contamination (reaction releases carbon dioxide).

	D =						
	Reactivity Data	1	Conditions to Assid				
Stability	Unstable		Conditions to Avoid Moisture contamina	tion will relea	se c	arbon dioxide, leading to	pressure build-up in closed containers.
	Stable	X	At ambient temper	ature and pres	sure		
Incompatibility (Materials to Avoid)		Water, alcohols, stre				
Hazardous Decor	mposition or Byprodu	cts	High temperature at traces of HCN.	nd buring con	ditio	ns may release TDI vapo	ors, oxides of carbon and nitrogen, and
Hazardous Polymerization	May Occur	X	Conditions to Avoid	Avoid prolor constitute a			r polymerization may but does not
	Will Not Occur						
Section VI -	- Health Hazard	Data					
Route(s) of Entry	: Inha	lation?	X	Skin?	X		Ingestion? X
Health Hazards (Acute and Chronic)	INH	ALATION: May cau	se breathlessn	ess,	dizziness and nausea.	
		SKI	N: Irritation and aller	gic sensitivity	may	occur for some individu	ıals.
Carcinogenicity:	NTP Contains petroleu	? m oile	similar to ones catego	IARC I	Mono C as	ographs? causing skin cancer in r	OSHA Regulated?
	and repeated con-	act. A	ny potential hazard ca	n be minimiz	ed by	y using recommended pr	
Signs and Symp	<u>ayoid skin contact</u> toms of Exposure		y washing throughly a	•			
		INI	HALATION: Immedi	ate or delayed	res	piratory sensitization and	asthma-like conditions.
		SK	IN: Reddening, swell	ing or blister	ing.		
Medical Conditio Generally Aggrav	ns vated by Exposure	Рте-	existing unspecific bro	nchial hypers	ensit	ivity and potentially, any	vallergies.
	·						
Emergency and	First Aid Procedures INHALATION	: Rem	ove person to fresh ai	r. SKIN: Ren	svon	contaminated clothing, wip	e affected area with isopropyl
	alcohol, followed	by soa		ush immediately	with	n water for at least 15 minu	
Section VII -		•	fe Handling and				
Steps to Be Tak	en in Case Material I	s Relea	ased or Spilled	atain spill V	entil	ate area cover smill with	sawdust, vermiculite or other
				· · · · · · · · · · · · · · · · · · ·			ation solution (93% water,
Waste Disposal		ua, 296	detergent). Leave of	en in a ventil	ated	area for 24 nours.	
	Bury or la	ndfill d	econtaminated waste	in accordance	with	Federal, State, and loca	l environmental control
	regulations						
Precautions to 8	e Taken in Handling		-	ool day alace		tected from heat and mo	isture contemination
	Swie III u	EIIIY C	OSCI COMAINES IN A C	COL UIY MACE	fun	ISSIBA IIISII NEAL AME IIIO	ISHITE CARRATHIUMBA
Other Precaution	ns DO NOT	RESEA	L containers if contain	nination is su	spec	ted. Personal, good hyg	ienic practices are recommended,
	like washi	ng han	ds before eating or sm	oking.			4,,,
Section VIII	- Control Meas	ures		 	-		
Respiratory Prot	ection (Specify Type)			MSHA/NIC	SH	approved respirator for l	nigh concentrations and emergency
Ventilation	Local Exhaust		y recommended to maint	ain		Special None Know	vn
	Mechanical (General	2/1	OSHA TLV limits.			Other None Kno	wn
Protective Glove			natural rubber	Ey	e Pr	otection Chemical work	
Other Protective	Clothing or Equipme	ent		to avoid skip	COR	act. Safety showers and	
Work/Hygienic F	Practices						eje wasii stations.
• • • • •	Wear pro	tective	equipment to prevent	eye and skin	cont	act.	



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OMB No. 1218-0072



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IIEAVY DUTY FIL, Modified Component A information is available, the space must be marked to indica'e that. Section I **Emergency Telephone Number** Manufacturer's Name ARNCO (800)424-9300 Telephone Number for Information Address (Number, Street, City, State, and ZIP Code) One Centerpointe Drive (202)483-7616 Date Prepared La Palma, CA 90623-1094 February 1988 Signature of Preparer (optional) (714)739-7900 Section II - Hazardous Ingredients/Identity Information Other Limits ACGIH TLV Recommended % (optional) OSHA PEL Hazardous Components (Specific Chemical Identity; Common Name(s)) TDI prepolymer 0.02 ppm 0.2mg/m^3 0.2mg/m³-TWA Petroleum hydrocarbon Section III - Physical/Chemical Characteristics Specific Gravity (H2O = 1) **Boiling Point** 302°F 1.05 Melting Point Vapor Pressure (mm Hg.) NE N/A Evaporation Rate Vapor Density (AIR = 1) NE NE (Butyl Acetate = 1) Solubility in Water Insoluble, reacts with water to liberate carbon dioxide gas. Appearance and Odor Coffee brown liquid with slight isocyanate smell. Section IV — Fire and Explosion Hazard Data LEL UEL Flammable Limits Flash Point (Method Used) 270°F COC NE Extinguishing Media Dry chemical, chemical foam, carbon dioxide. Special Fire Fighting Procedures Fire fighters should wear self-contained pressure demand breathing apparatus. Use water to cool fire exposed containers. Eliminate all sources of ignition. Unusual Fire and Explosion Hazards During a fire toxic gases are generated. Closed containers may explode from extreme heat or from extreme heat or from water contamination as pressure buildup may cause violent rupture of these contamers.

Section V —	Reactivity Data				
Stability	Unstable		Conditions to Avoid		1 1000
	Stable		Open flame and storage tempo		
		X_	Stable under normal, recomm	ended st	storage conditions.
	Materials to Avoid)		Water, alcohols, ammonia, ami	nes, and	d alkalis.
Hazardous Decor	nposition or Byprodu	cts	Carbon dioxide, carbon monoxi	ide, nitro	rogen oxides, sulfur oxides, and traces of HCN.
Hazardous	May Occur		Conditions to Avoid		TO A
Polymerization	Will Not Occur	X	Exposure to high temperatures	and with	th materials listed under "INCOMPATIBILTY".
	77.11 1101 00001				
Section VI -	Health Hazard	Data			
Route(s) of Entry	Inha	lation?	X Ski	n? X	Ingestion?
Health Hazards (Acute and Chronic)	Inha	lation of vapors or mists can cau	ise irrital	ation of the upper and lower respiratory tract; severe
		irrit	ation to the eyes causing redness	tearing	or blurred vision.
			MICHERY III STATE CONTINUE TO SHIP AND		
Carcinogenicity:	NTP	? X	IAF	C Mono	ographs? OSHA Regulated?X
	For hazard comm	unicati	on purposes under OSHA Standa	rd 29 C	CFR Part 1910,1200, this product contains TDL a
		a pote	ential carcinogen by NTP.		
Signs and Symp	toms of Exposure Dizziness, nausea.	asthma	like symptoms, impaired ventila	tory car	pacity: redness and tearing of the eyes.
			welling or blistering.		
Medical Conditio	ns			ersensiti	tivity and potentially, any allergies.
Generally Aggrav	vated by Exposure	110-	existing unspectite oronerium hyp		and position by an egen
	First Aid Descending	DIT	IAI ATION. Domeste person to	frach air	ir. If breathing is difficult; administer oxygen. If
Emergency and	breathing has s	topped	l, apply articial respiration and ca	all a phy	ysican. EYES/SKIN CONTACT: Flush eyes
	immediately w	ith wa	ater for at least 15 minutes; wash occurs.	affected	ed skin with soap and water. Get prompt medical
Section VII -			fe Handling and Use		
Steps to Be Tak	en in Case Material	s Rele	ased or Spilled		al a cill with a surface or other shoothest material
					over the spill with sawdust or other absorbent material,
	scoop and	place i	n open container and remove to	well ver	entilated area to be treated with a decontamination,
	Wash dow	ade up n the s	of: (93% water, 5% conc. amm pill area thoroughly with deconta	ionia, 29 iminatio	% detergent). Leave container open for 24-48 hours.
Waste Disposal	Method Decontami	nated	waste must be disposed of in a	ccordan-	nce with Federal, State, and local environmental control
	regulations	. It i	s your duty to comply with the	"Clean	n Air Act", "Clean Water Act", and "Resources
Precautions to B	Conscryati		Recovery Act"		
				prevent	t atmospheric moisture contamination. DO NOT
	RESEAL	contai	ners if contamination is suspected	d. DO 1	NOT store near open flame or high heat.
Other Precaution	ns Wear prot	ective	equipment to prevent eye and sk	in conta	act. Avoid unnecessary exposure to vapors or mists.
			oroughly before eating or smokin		
Section VIII	— Control Mea			<u> </u>	
	ection (Specify Type)				
		Use N		or, espec	ecially at elevated temperatures and emergency conditions.
Ventilation	Local Exhaust		umended to maintain concentrate below TLV.		Special None
	Mechanical (Gener	al)	commended		Other Nane
Protective Glove	ss			Eye Pr	Protection
0.5	Natural rubb		eoprene		Chemical workers' splash goggles
	Clothing or Equipm Laborate	ry coa	ts or suitable clothing to avoid e	ve/skin	contact. Accessible safety showers & eye wash stations.
Work/Hygienic F	Practices Handle in	accor	dance with good hillstrial hygie posure and processing under adec	ne and s	safety practices. These practices include avoiding
	unnecess	ITY CXI	osere and processing under adec	prace GAI	STANCOURT TEACHTER AND THE CONTRACT OF THE CON

Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard, 29 CFR 1910,1200. Standard must be

consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

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OMB No. 1218-0072



DENTITY (As Used on Label and List) SUPERFLEX Comp	onent A	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.					
Section I							
Manufacturer's Name ARNCO		Emergency Teler	phone Number (800)424-9300				
Address (Number, Street, City, State, and ZIP Code)		Telephone Number for Information					
One Centerpointe Drive		Date Prepared	(202)483-7616				
La Paima, CA 90623-1094			March 1987				
(714)739-7900		Signature of Pre	parer (optional)				
Section II — Hazardous Ingredients/Iden	tity Informatior	1					
Hazardous Components (Specific Chemical Identity: C	Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (0000007.8		
Toluene diisoccyanate (TDI) and TDI pre			0.02 pom				
Petroleum hydrocarbons			0.2mg/m ³				
	<u> </u>						
					* · · · · · ·		
					per a company		
				A Service American			
Section III — Physical/Chemical Charact	eristics				-		
Boiling Point	440°F	Specific Gravity	$(H_2O = 1)$	annum e de e e e e e e e e e e e e e e e e e	1.01		
Vapor Pressure (mm Hg.)	NE	Melting Point		* *	N/A		
Vapor Density (AIR = 1)	NE	Evaporation Rat			NE		
		(Butyl Acetate	• 1)				
Solubility in Water Insoluble, reacts with w	ater to liberate carb	on dioxide gas.					
Appearance and Odor		-					
Coffee brown liquid, pu							
Section IV — Fire and Explosion Hazard	Data			1 1 51	I UEL		
Flash Point (Method Used) 356°F COC		Flammable Lim	its	LEL NE	NE NE		
Extinguishing Media Dry Chemical, chemical foam, car	bon dioxide.		-		•		
Special Fire Fighting Procedures	nd breathing appar	anus to guard again	st incompletely comb	usted carbon produc	ts.		
Wear self-contained pressure dema							
Wear self-contained pressure dema	3 //						
Wear self-contained pressure dema Unusual Fire and Explosion Hazards Closed containers may explode from							

lestion V — i	Reactivity Da	.ta				
EDIIITY	Unstable	i	Conditions to Avoid Moisture contamination will	release ca	bon dioxide, leading u pressure	build-up in closed containers
į	Stable	X	At ambient temperature and	pressure.		
compatibility (A	ARTERIAIS TO AVO	i d)	Water, alcohols, strong base			
zzaroous Decom	position or Bypr	oducts	traces of HCN.		s may release TDI vapors, oxides	
azardous olymenzation	May Occur	X	Conditions to Avoid Avoid	orolonged te a safety	neating above 160°F, for polymer hazard.	ization may but does not
	Will Not Occur					
ection VI —	Health Haza	rd Data				
oute(s) of Entry:	<u> </u>	nhalation?	X	kin? X	Inges	stion? X
ealth Hazards (A	Acute and Chron	c) INH	IALATION: May cause breath	ilessness,	lizziness and nausea.	
		SKI	N: Irritation and allergic sensi	tivity may	occur for some individuals.	
'aminocanicity'		NTP?	l.	ARC Mono		IA Regulated?
Carcinogenicity:	Contains net	oleum oils	similar to ones categorized by	IARC as	causing skin cancer in mice after	prolonged
	and repeated	contact, A	any potential hazard can be mi	nimized by	using recommended protective e	equipment to
	avoid skin co	_	hy washing throughly after har			
Signs and Sympt	oms of Exposur	<u>IN</u>	HALATION: Immediate or de	elayed resp	iratory sensitization and asthma-l	ike conditions.
		SK	IN: Reddening, swelling or	olistering.		
Medical Condition Senerally Aggray	ns rated by Exposur	е Рте	existing unspecific bronchial h	ypersensit	vity and potentially, any allergies	i.
	E-A Aid Bassadi					
Emergency and I	FIRST AID PROCEDI TNHALAT	ires ION: Rer	nove person to fresh air. SKIN	: Remove	contaminated clothing, wipe affected	area with isopropyl
	alcohol, foli	owed by so	an and water. EYES: Flush imme	diately with	water for at least 15 minutes, get m	edical attention.
	INGESTIO	N: Give lar	ge amounts of water and consult a	physician		
Section VII -	 Precaution 	is for Sa	afe Handling and Use			
Steps to Be Take	en in Case Mate Prope	rial Is Reie ly protecti	eased or Spilled ed personnel should contain sp	ill. Ventil	nte area cover spill with sawdust	, vermiculite or other
	absorb	ent materi	al. Scoop and place in open c	ontainer a	d treat with decontamination solu	ution (93% water
			% detergent). Leave open in a			
Waste Disposal					Federal, State, and local environ	nmental control
	regula	tions.				
Precautions to B	e Taken in Han	dling and S	Storing_			
	Store	in tightly	closed containers in a cool, dry	place pro	sected from heat and moisture co	ntamination
Other Precaution	ns DO N	IOT RESE	AL containers if contamination	n is suspec	ted. Personal, good hygienic pra	ctices are recommended,
<u> </u>	like v	vashing ha	nds before eating or smoking.			
Section VIII	— Control N	Aeasure:	3		· .	
	ection (Specify		· · · · · · · · · · · · · · · · · · ·	LA/NIOSH	approved respirator for high con-	centrations and emergency
Ventilation	Local Exhaus	Strong	ditions. gly recommended to maintain v OSHA TLV limits.		Special None Known	
	Mechanical (C		ecommended		Other None Known	
Protective Glove	es Chemic		nt, natural rubber	Eye P	otection Chemical worker's gog	gles
Other Protective	- Clathing of Eq	omost		<u> </u>		
	Let	coratory co			tact. Safety showers and eye wa	SIT STATIONS.
WorldHygienic I	Fractices Wes	er protectiv	e equipment to prevent eye ar	d skin cor	tact.	

Material. Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

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consulted for specific requirements. OMB No. 1218-0072 Note: Blank spaces are not permitted. If any item is not applicable, or no IDENTITY (As Used on Label and List) information is available, the space must be marked to indicate that. PERMACOR Component A Section I **Emergency Telephone Number** Manufacturer's Name (800)424-9300 **ARNCO** Telephone Number for Information Address (Number, Street, City, State, and ZIP Code) (202)483-7616 One Centerpointe Drive Date Prepared March 1987 La Palma, CA 90623-1094 Signature of Preparer (optional) (714)739-7900 Section II — Hazardous Ingredients/Identity Information Other Limits **ACGIH TLV** Recommended % (optional) OSHA PEL Hazardous Components (Specific Chemical Identity; Common Name(s)) 0.02 ppm Toluene diisoccyanate (TDI) and TDI prepolymer 0.2mg/m^3 Petroleum hydrocarbons Section III - Physical/Chemical Characteristics Specific Gravity (H2O = 1) **Boiling Point** 440°F 1.01 Melting Point Vapor Pressure (mm Hg.) NE N/A Evaporation Rate Vapor Density (AIR = 1) NE NE (Butyl Acetate = 1) Solubility in Water Insoluble, reacts with water to liberate carbon dioxide gas. Appearance and Odor Coffee brown liquid, pungent odor. Section IV - Fire and Explosion Hazard Data LEL UEL Flammable Limits Flash Point (Method Used) NE NE 356°F COC Extinguishing Media Dry Chemical, chemical foam, carbon dioxide. Special Fire Fighting Procedures Wear self-contained pressure demand breathing apparatus to guard against incompletely combusted carbon products. Unusual Fire and Explosion Hazards Closed containers may explode from extreme heat or from water contamination (reaction releases carbon dioxide).

	Reactivity Data	,	Outdiana to Audid				
Stability	Unstable		Conditions to Avoid Moisture contamination will:	release o	arbon dioxi	de, leading to pressure build-up in closed containers	
	Stable	X	At ambient temperature and pressure.				
Incompatibility (/	Materials to Avoid)		Water, alcohols, strong bases,				
Hazardous Decon	nposition or Byprodu	cts	traces of HCN.			ease TDI vapors, oxides of carbon and nitrogen, and	
Hazardous Polymerization	May Occur	X	Conditions to Avoid Avoid processitut	rolonged e a safet	heating abo y hazard.	ove 160°F, for polymerization may occur but does r	
	Will Not Occur						
Section VI -	Health Hazard	Data	•				
Route(s) of Entry:	Inha	ation?	X Sk	in? X		Ingestion? X	
Health Hazards (Acute and Chronic)	INI	IALATION: May cause breath	lessness,	dizziness ar	nd nausea.	
		SK	N: Irritation and allergic sensit	ivity ma	y occur for s	some individuals.	
Carcinogenicity:	Contains petrole	? ım oils	similar to ones categorized by	RC Mone	ographs? s causing sk	OSHA Regulated? in cancer in mice after prolonged	
			my potential hazard can be min by washing throughly after hand		by using reco	ommended protective equipment to	
Signs and Symp	toms of Exposure	IN	HALATION: Immediate or del	ayed res	piratory sen	sitization and asthma-like conditions.	
		SK	IN: Reddening, swelling or bl	istering.			
Medical Condition Generally Aggrav	ns vated by Exposure	Pre-	existing unspecific bronchial hy	persensi	tivity and po	otentially, any allergies.	
Emergency and						d clothing, wipe affected area with isopropyl	
	alcohol, followe INGESTION:	d by so: Give lar	ap and water. EYES: Flush immedige amounts of water and consult a	liately wi physician	th water for a	at least 15 minutes, get medical attention.	
			fe Handling and Use				
Steps to Be Tak	en in Case Material Properly	s Relea	ased or Spilled ad personnel should contain spill	l. Venti	late area, co	over spill with sawdust, vermiculite or other	
	absorbent	materi	al. Scoop and place in open cor	ntainer a	nd treat with	h decontamination solution (93% water,	
	5% ammo	nia, 29	6 detergent). Leave open in a v	entilated	l area for 24	4 hours.	
Waste Disposal	Method Bury or l	ndfill	decontaminated waste in accord	ance wit	h Federal, S	State, and local environmental control	
	regulation	s.					
Precautions to B	e Taken in Handling	and S	toring closed containers in a cool, dry	place p	rotected from	m heat and moisture contamination.	
					<u></u>		
Other Precaution	ns DO NOT	RESE	AL containers if contamination	is suspe	eted. Persor	nal, good hygienic practices are recommended,	
	like wash	ing har	ds before eating or smoking.				
Section VIII	- Control Mea	sures					
Respiratory Prot	ection (Specify Type)		MSHA itions.	/NIOSH	approved re	espirator for high concentrations and emergency	
Ventilation	Local Exhaust				Special	None Known	
	Mechanical (Gener	al) Re	commended		Other	None Known	
Protective Gloves Chemical Resistant, natural rubber					Eye Protection Chemical worker's goggles		
Other Protective	Clothing or Equipm	ent		skin cor		y showers and eye wash stations.	
Work/Hygienic f	Practices		equipment to prevent eve and				